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August 27, 1992

Mr. Paul Steadman
On-Scene Coordinator
Emergency Response Branch
U. S. Environmental Protection Agency
Region V
77 W. Jackson Boulevard
Mail Stop HSE-5J
Chicago, Illinois 60604

RE:

C.R. 10 Landfill Site

Elkhart, Indiana

Emergency Removal Report

Dear Mr. Steadman:

Enclosed please find two copies of the report for the efforts conducted in the vicinity of Test Pit TL-5 at the above referenced site. The report covers the drum removal activities conducted in May 1992 and the extent of contamination survey performed in June 1992.

As indicated in this report, an addendum with additional disposal paperwork will be forthcoming. If you have any questions, please do not hesitate to call.

Sincerely,

MITTELHAUSER CORPORATION

David M. Curnock

Midwest Environmental Manager

1044bt

Enclosures

cc: C. Himes

R. Paulen

Immediate Removal Action Summary Report

For

COUNTY ROAD 10 LANDFILL Elkhart, Indiana

Prepared for:

USEPA REGION V
EMERGENCY RESPONSE BRANCH
Mr. Paul Steadman, On-scene Coordinator
Pursuant to:
General Notice of Liability, May 12, 1992

Prepared by:

MITTELHAUSER CORPORATION 1240 Iroquois Drive, Suite 102 Naperville, Illinois 60563

Project No. 1044.03

August 27, 1992

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SECTION 1

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1.0 <u>INTRODUCTION</u>

1.1 BACKGROUND

On May 12, 1992, the United States Environmental Protection Agency (USEPA), Region V, issued a General Notice of Liability letter to the identified Potential Responsible Parties (PRPs) regarding the County Road 10 Landfill site (a.k.a. Himco Dump) located in Elkhart, Indiana. The letter indicated that immediate action was required to abate any releases or potential releases of contaminants from the facility. PRPs were offered the opportunity to fund or perform the necessary immediate action in lieu of response actions by USEPA. The necessary response actions identified in the Notice of Liability were: to excavate the ditch (TL5 test pit) near the center of the southern margin of the former landfill; to remove and dispose of excavated solvents and drummed waste; and to perform an extent of contamination survey in that area of the former landfill.

The Notice of Liability and immediate response action letter was motivated by the discovery of apparent separate-phase product and drums by USEPA-contracted investigators in the southeast corner of the TL5 test pit excavation on September 13, 1991. Analyses of liquid samples collected from the trench identified a limited number of aromatic hydrocarbons and ketones as the primary waste constituents. The trench was backfilled following sample collection, and its location was marked with survey stakes.

In voluntary cooperation with the General Notice of Liability, Himco Waste-Away Services, Inc. (Himco) of Elkhart, Indiana, contracted Mittelhauser Corporation (Mittelhauser) to conduct the required immediate response actions. A removal action work plan was prepared by Mittelhauser and submitted in person to USEPA Emergency Response Branch on May 15, 1992. Verbal approval of the work plan was granted at that time, and at the request of the USEPA Emergency Response Branch, removal action work commenced on May 19, 1992. In correspondence dated May 18, 1992, supplemental information was requested by USEPA subsequent to the USEPA's review of the removal action work plan. Conditional approval of the work plan was granted in the May 18, 1992 correspondence, pending receipt of the requested information. Mittelhauser submitted the requested information to USEPA in correspondence dated June 2, 1992.

1.2 PURPOSE

This report describes the activities and results of the immediate response actions conducted at the TL5 test pit area of



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the County Road 10 Landfill site, Elkhart, Indiana. The immediate response actions described in this report include: the procedures and results associated with the exhumation of buried drums and the recovery of solvent product from the TL5 test pit area; methods and results of a limited extent of contamination survey in the TL5 area; and the disposal methods and documentation for wastes generated during the removal action. Photographic documentation of the removal action activities is provided as Appendix A to this report.

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2.0 IMMEDIATE REMOVAL ACTION

During May 19 to 22, 1992, the TL5 test pit area was excavated, buried drums and solvent product were recovered from the excavation, and the wastes were staged for subsequent offsite disposal. The response actions were conducted in accordance with the Immediate Removal Action Work Plan, dated May 15, 1992. Site-specific conditions unknown prior to work plan preparation resulted in some field modifications to the work plan, which were approved by Mike Duet, USEPA oversight contractor.

2.1 REMOVAL ACTION MOBILIZATION/COORDINATION

On May 19, 1992, the initial site activities consisted of mobilization, orientation, and equipment staging. Laidlaw Environmental Services (Laidlaw) of Pecatonica, Illinois, was contracted by Mittelhauser to provide equipment and labor for the removal action. A representative of Mittelhauser was present as the onsite coordinator throughout the removal action. Mr. Michael Duet, Metcalf and Eddy, Inc., was present during the removal action and extent of contamination survey as the oversight representative for USEPA.

Other agency representatives present during portions of the removal action are listed below:

Paul Steadman USEPA, Region V, Emergency Response Branch, On-scene coordinator.

Mary Elaine USEPA, Region V, Superfund Section, Gustafson Remedial Project Manager.

Kirsten Ecology & Environment, USEPA Technical Evelkruge Assistance Team (TAT).

James Smith Indiana Department of Environmental Management (IDEM), Office of Environmental Response, Superfund Section, Project Manager.

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Ken Gill IDEM, Office of Environmental Response, Geology Section.

Geoff Downie Elkhart County Health Department.

A staging area for equipment and overpack containers was established on top of the former railroad berm immediately north

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of and overlooking the TL5 test pit area. The berm trends approximately east-west and accounts for approximately 5 to 6 feet of relief. The staging area measured approximately 30 feet by 30 feet. The ground surface within this area was covered with 6-mil polyethylene sheeting. A roll-off box was placed on either side of the staging area. The roll-off boxes were used to store recovered drums, prior to offsite disposal.

The Laidlaw crew consisted of one equipment operator, two laborers for drum handling, etc., and a crew foreman/equipment manager. The work activities were supervised from the staging area by the Laidlaw foreman and the Mittelhauser onsite coordinator. The foreman, equipment operator, and one laborer were in constant 3-way radio contact.

2.2 DRUM EXCAVATION AND WASTE RECOVERY

2.2.1 <u>Drum Removal</u>

A Caterpillar EL 300 was used to excavate the TL5 test pit area. The excavator was initially positioned to begin the excavation at the southeast end of the TL5 test trench and work to the south and east. Two Laidlaw employees worked close to the bucket at all times to direct the track hoe operator and to provide manual labor for drum recovery and product recovery.

Organic vapor monitoring was performed in the field with a photoionization detector (PID). Organic vapors were not detected as the grass cover was initially broken. Removal of additional soil exposed refuse (wood and plastic debris) at a depth of approximately 1 foot below grade. At a depth of approximately 1.5 feet, corroded steel drums were encountered. Laidlaw personnel also observed liquids several feet below grade in cavities surrounding the drums. PID readings taken within the cavities reached 3,500 ppm.

The buried drums were systematically exposed by removal of refuse/overburden with the track hoe bucket. The drums were then further exposed by manual digging; Laidlaw personnel then secured lift straps and clamps to the exposed drum lids. The drums were then lifted from the excavation with the track hoe arm. Recovered drums that were empty were placed on a temporary, lined staging area. Recovered drums that contained waste material were placed into 85-gallon overpack drums temporarily staged at the edge of the excavation The empty drums were later staged in a lined roll-off box. The overpack drums were lifted from the edge of the excavation to the general staging area.

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2.2.2 <u>Description of Drums</u>

The majority of the drums were submerged or partially submerged in groundwater when encountered. The water table maintained a level of approximately 3 to 3.5 feet below surface grade. Drums encountered in contact with groundwater were observed to be perforated, due to corrosion. The perforations generally ranged in size between 0.25-inch to 4-inch dimensions. The condition of the drums ranged from sparsely perforated to extremely perforated and fragmented. The few drums recovered from above the static water level were generally less corroded and in fair condition.

Most drums appeared to have been at least partially crushed prior to the removal action, and some were totally crushed. The drums that were encountered were positioned in random, overlapping orientations. The drums were recovered from a small but continuous area, generally between the depths of 1.5 to 5 feet below grade.

The drums were buried in refuse materials consisting primarily of plywood panelling, other scrap wood, masses of transparent tape, masses of paper/pulp material, and scrap asphaltic roofing materials.

The excavation process resulted in damage to some drums. The damage was unavoidable as a result of the overall poor condition of the drums, the type of refuse encountered, the overlapping and random orientation of the drums, and the occurrence of many drums beneath the shallow water table surface.

2.2.3 Description of Drum Contents

In general, the submerged drums were completely, or nearly completely, filled with groundwater as they were encountered. Product was observed in some drums or to emanate from the drums as a surface layer on the groundwater. Floating product was often observed to emanate from partially submerged, corroded drums and cavities in the walls of the excavation. The cavities were void spaces between drums and refuse material. Product had apparently accumulated where the water table intersected the void spaces.

Two types of liquid product were observed during the removal action: a slightly yellow, clear liquid and a dark red/brown liquid. Each liquid had a definite solvent odor. PID readings above the liquids attained values of up to 3,500 ppm. Drums containing liquid product were either recovered and placed into 85-gallon overpack drums or were emptied of their product

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in-situ by use of a vacuum pump. Several drums containing significant product volume were damaged during excavation and their contents were released into the excavation. This product was recovered by vacuum pumping the material from the surface of the water table before continuing with additional excavation.

The majority of drums recovered during the removal action were empty, perforated 55-gallon drums. Several fragments and drum halves were also recovered. Several of the drums that were recovered and staged as empty drums contained small amounts of solidified paint waste. One 33-gallon drum contained a viscous asphaltic product. Two other drums contained crushed clay drain tiles and used rags. Nine drums containing liquid and solid solvent and paint waste were recovered and placed into 85-gallon overpack containers.

Five reconditioned 55-gallon, 17H open top drums, supplied by Laidlaw, were filled with paint sludge, solvent, soil, contaminated protective clothing, plastic sheeting, and miscellaneous contaminated debris that was generated during the drum removal and staging activities. An inventory of the wastes generated during May 19 to 22, 1992 is provided in Table 1.

2.2.4 Product Recovery

Several methods were used to recover product during the removal action. Floating product was periodically recovered from the excavation by bailing or pumping (air diaphragm pump and/or vacuum pump). When possible, product was recovered from drums in-situ by inserting a vacuum pump intake nozzle into the drum through a perforation and skimming from the surface to remove the product from the drum. Prior to the arrival of the tanker truck, recovered liquid product was pumped into reconditioned 55-gallon, 17H open top drums. Liquids were pumped directly into the tanker subsequent to its arrival onsite. Included in Table 1 are 14 reconditioned 55-gallon drums supplied by Laidlaw that were used initially to contain the recovered liquid wastes. These drums were later emptied by pumping their contents to the tanker truck.

Relatively intact drums containing product were placed into overpack drums when possible. If the drums could not fit the overpack, the liquid contents were collected into the overpack and then pumped to the tanker.

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2.3 REMOVAL ACTION COMPLETION/DEMOBILIZATION

2.3.1 Extent of Removal Action Excavation

On Thursday, May 21, 1992, excavation activities were concluded after additional excavation failed to encounter any additional drums. At the request of Mr. Duet, the excavation was enlarged along its perimeter as a confirmatory measure. No further drums were encountered nor was product observed from the newly exposed walls of the excavation. Residual floating product was skimmed from the groundwater surface and pumped to the tanker. The approval to backfill the excavation was granted by Mr. Duet under authority of USEPA Emergency Response Branch. The excavation was backfilled to attain its original grade.

The attached site map (Figure 1) shows the location of the TL5 test pit area and the approximate location and dimensions of the removal action excavation. The excavation attained an overall dimension of approximately 35 feet by 35 feet. The edges of the excavation were oriented approximately north-south and At any given time, the open excavation was no larger east-west. than approximately 15 feet by 15 feet. Drums were encountered at depths between 2 and 5 feet below grade. The maximum depth of the excavation was approximately 7 feet. The materials encountered at depths greater than 4 or 5 feet consisted primarily of 1/4-inch plywood sheets. Sand was encountered at approximately 7 feet. Fine grained geologic materials (clay and silt) were not encountered in the excavation.

2.3.2 <u>Demobilization</u>

Demobilization activities consisted of drum labeling, profiling, and sampling by Laidlaw personnel. The overpack drums and 55-gallon reconditioned drums containing removal action waste were staged in a lined roll-off box. The empty drums recovered during the removal action were staged in another lined roll-off box. Both roll-off boxes were covered with tarps and remained onsite prior to offsite disposal.

Equipment decontamination consisted of decontaminating the bucket of the track hoe using a detergent wash, scrub brushes, and a rinse. Decontamination water was contained and placed into the hazardous waste tanker. The tracks of the excavator were scraped clean of adhering soil. Equipment decontamination was performed to the satisfaction of USEPA oversight personnel.

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2.4 WASTE INVENTORY

An inventory of the drums recovered during the removal action and staged prior to demobilization is presented in Table 1. Each overpack drum and reconditioned drum containing waste generated during the removal action was labeled with waste profile information by Laidlaw personnel during the staging of the drums. Drums were segregated into groups according to similar profiles and were sampled by Laidlaw personnel for transport and disposal purposes. Later site activities (July and August 1992) resulted in the generation of additional drummed materials not included in Table 1. Those activities and materials are discussed in Section 4 of this report.

TABLE 1

INVENTORY OF MATERIAL GENERATED DURING THE TL5 TEST PIT AREA REMOVAL ACTION MAY 19 TO 22, 1992 (Page 1 of 5)

I. EMPTY DRUMS RECOVERED AND STAGED IN LINED ROLL-OFF BOX

DESCRIPTION OF RECOVERED DRUM	CONTENTS (1) NO. OF DRUMS
Bunged, corroded, perforated, partially crushed, 55-gal closed top	Solid light blue sludge, residual 4
Bunged, corroded, perforated, partially crushed, 55-gal closed top	Solid light green sludge, residual 1
Bunged, corroded, perforated, partially crushed, 55-gal closed top	Solid light tan sludge, residual 3
Bunged, corroded, perforated, partially crushed, 55-gal closed top	Solid light red sludge, residual 1
No lid, corroded, perforated, partially crushed, 55-gal	Clay drain tile, trash 1
Semi-intact, 55-gal open top, open bung, large gash	Sludge residue 1
Semi-intact, 33-gal	Viscous tar-like material, full 1
Bunged, corroded, perforated, labeled "Toluene/Tolual"	Empty 2
Bunged, perforated, partially crushed, painted green, paint drippings on drum exterior	Empty 3
Bunged, perforated, crushed, w/stir rod	Empty 1

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TABLE 1

INVENTORY OF MATERIAL GENERATED DURING THE TL5 TEST PIT AREA REMOVAL ACTION MAY 19 TO 22, 1992 (Page 2 of 5)

I. EMPTY DRUMS RECOVERED AND STAGED IN LINED ROLL-OFF BOX (continued)

DESCRIPTION OF RECOVERED DRUM	CONTENTS (1)	NO. OF DRUMS
Open bungs, perforated, crushed, w/stir rod, 55-gal	Empty	1
Open bungs, perforated, crushed, 55-gal	Empty	1
Open end, corroded, perforated, 55-gal	Rags, debris	1
Bunged, partially crushed, corroded, perforated, 55-gal closed top	Empty	25
Plastic bungs, crushed, perforated	Empty	1
Very corroded and very perforated, 55-gal; includes 2 partial		
drums (fragments)	Empty	
TOTAL (empty drums including	g drum fragments): 59

TABLE 1

INVENTORY OF MATERIAL GENERATED DURING THE TL5 TEST PIT AREA REMOVAL ACTION MAY 19 TO 22, 1992 (Page 3 of 5)

II. INVENTORY OF MATERIAL DRUMMED INTO 85-GALLON OVERPACK DRUMS

DESCRIPTION OF RECOVERED DRUM	CONTENTS (2)	NO. OF DRUMS
Semi-intact, rusted	Paint drum w/10% liquid, 90% solid	1
Semi-intact, rusted	Solid paint drum, 80% paint solids, 20% soil	1
Semi-intact, rusted	Paint drum w/solvents 40% liquid, 60% solid	4
Semi-intact, rusted	Solid paint drum w/solvent and soil	1
Semi-intact, rusted	Solid paint	1
Semi-intact, rusted	Solid paint drum w/solvents	s 1
TOTAL (85-gal ov	erpack drums):	9

TOTAL DRUMS RECOVERED (including drum fragments)

Total	(empty drums	including	drum	fragments)	59
Total	(85-gal over)	back drums)		• • • • • • • • • • • • • • • • • • • •	9

TOTAL:

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TABLE 1

INVENTORY OF MATERIAL GENERATED DURING THE TL5 TEST PIT AREA REMOVAL ACTION MAY 19 TO 22, 1992 (Page 4 of 5)

III. INVENTORY OF MATERIAL DRUMMED INTO 55-GAL 17H DRUMS

DESCRIPTION OF CONTENTS	NO. OF DRUMS
Paint sludge, 90% solids 10% liquid (3)	1
Tyvek/protective clothing contaminated w/paint solvents (4)	2
Plastic debris w/paint solvent solids (4)	1
Soil and debris contaminated w/paint solvent	1
Empty; last contained paint solvent waste (5)	14
TOTAL (55-gal 17H drums):	19

TABLE 1

INVENTORY OF MATERIAL GENERATED DURING THE TL5 TEST PIT AREA REMOVAL ACTION MAY 19 TO 22, 1992 (Page 5 of 5)

IV. SUMMARY

TOTAL NUMBER OF DRUMS RECOVERED OR GENERATED DURING MAY 19 - 22, 1992

Total	(empty	drums	incl	luding	drum	fra	agment	s)			 	 59
Total	(85-gal	over	pack	drums)						 	 9
	(55-gal											
					TOT	CAL	NUMBE	R OF	DRU	MS:		87

APPROXIMA	TE VOI	LUME	OF	LIQUID	WASTE	IN	TANKER		
(Solvent								1,200	GALLONS

FOOTNOTES

- (1) Describes the contents of the drums as staged in the roll-off box. An estimated 10 15 of these drums initially contained liquid product that was recovered by draining, bailing, or pumping into reconditioned drums and/or the tanker truck.
- (2) Describes wastes in recovered drums.
- (3) Contents of these drums recovered by draining, bailing, and/or shovelling liquids, solids, and semi-solids from recovered drums.
- (4) Investigation derived wastes (protective clothing, plastic sheeting, etc.) drummed in reconditioned 55-gal 17H open top drums supplied by Laidlaw.
- (5) Product recovered from excavation was originally placed in 14 reconditioned 55-gal 17H open top drums supplied by Laidlaw. The contents of drums were later transferred to hazardous waste tanker truck and are accounted for in the tanker waste volume estimate (1,200 gallons).

SECTION 3

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3.0 EXTENT OF CONTAMINATION SURVEY

3.1 METHODS/PROCEDURES

On June 4, 1992, a limited extent of contamination survey was conducted in the area of the TL5 test pit. The survey consisted of field screening and sample collection of subsurface materials at the seven locations shown in Figure 1. At each location, a soil boring was advanced using decontaminated hollow stem augers. Continuous split spoon samples were collected to the water table. Split spoons were decontaminated prior to each sample collection using detergent solution wash and multiple rinse. After the recovery of each split spoon, the sample core was screened for photoionizable constituents indicative of volatile organic compounds (VOCs) using an HNU photoionizing detector with 10.2 eV probe.

Based on the gross HNU scan, site geology, and visual criteria, a two-sample complement was collected from each split spoon sample. One portion of the two-sample complement was collected for a field headspace screening with the HNU, and the other portion was stored in an ice chest, chilled, and reserved for possible laboratory analysis. The results of the headspace analyses assisted in determining which samples were submitted for laboratory analysis.

The sample exhibiting the maximum headspace reading per boring was selected for laboratory analysis of VOCs according to USEPA Publication SW-846 Method 8240. As an exception, sample SB2-1 was submitted for laboratory analysis although sample SB2-3 exhibited a higher headspace reading. Split spoon recovery of sample SB2-3 was poor, consisting of only a trace amount of wood material. All samples were submitted to NET Midwest, Inc. of Bartlett, Illinois.

The soil boring locations, field and headspace measurements, and selection of samples for laboratory analysis were conducted with the approval of Mike Duet, USEPA oversight contractor. Also in attendance during the soil sampling activity were Paul Steadman, USEPA, and Kirsten Evelkruge, E & E TAT.

3.2 RESULTS AND DISCUSSION

3.2.1 Field Screening

Sample collection information and results of the field and headspace screening analyses are summarized in Table 2. The field scan and headspace data is limited to a narrow, uniform range of low values, and indicates minor levels of VOC

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constituents in the soils. There were no solvent odors detected from the augers or from the samples at any boring location. The data does not indicate any area of gross contamination.

3.2.2 <u>Laboratory Analytical Results</u>

The results of the laboratory analyses are summarized in Table 3. Appendix B contains the laboratory analytical reports. The results indicate that the following VOCs were detected in at least one soil sample: 1,3-dichlorobenzene; 1,1-dichloroethane; ethylbenzene; toluene; and xylenes. Of these compounds, 1,1-dichlorobenzene was detected only in sample SB3-3, and toluene was detected only in sample SB4-3.

In general, the concentration levels of the compounds detected were higher in samples collected nearest the Removal Action excavation (SB1, SB2, SB3, and SB7), and were significantly lower at the outer perimeter locations (SB4, SB5, and SB6). No VOCs were detected in samples SB5-5 and SB6-4. Soil boring SB7 was performed at the location of the TL6 test pit, which is approximately 100 feet southwest of the TL5 area. Xylene and ethylbenzene were detected in sample SB7-2, at concentrations of 930 ug/kg and 9.7 ug/kg, respectively. Nondetection of VOCs at the SB6 location indicates, however, that the TL6 area is not likely a point source area of contamination.

3.2.3 <u>Field Observations</u>

The split spoon core samples indicated that landfilled refuse materials were absent at the SB4, SB5, and SB6 locations. At these locations, the upper 5 feet consisted of fill sand or reworked sand, containing trace quantities of small debris. Native soil was encountered at approximately 5 feet, as evident by plant roots, peat, and lack of debris.

At boring locations SB1, SB2, and SB3, trash/refuse was encountered between the depths of approximately 2 and 6 feet. The refuse material was observed to consist primarily of scrap wood. Minor amounts of miscellaneous trash and debris were encountered in boring SB7 to a depth of approximately 6 feet. Native sand was encountered in the 6 to 8 foot depth interval in soil boring SB7.

At boring locations SB1, SB2, and SB3, groundwater was encountered at depths of approximately 3 feet below ground surface. Groundwater was encountered at the SB4, SB5, SB6, and SB7 at approximately 6 to 7 feet below ground surface. The higher water table elevation encountered at SB1, SB2, and SB3 may be due to ponding within the refuse material. The ground surface elevation was approximately equal at each boring location;

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therefore, the difference in water table elevation is probably not a result of topographical variation.

3.3 CONCLUSION

The occurrence and distribution of VOCs detected in the soil sample results indicate that minor, residual soils contamination exists in a limited area generally south of the TL5 test pit area. The fill sand in that area may have come in contact with solvent waste during past drum disposal and grading activities. The analytical data, in conjunction with the southeasterly direction of groundwater flow, indicates that an additional point source area of groundwater contamination is not present in the area covered by the study.

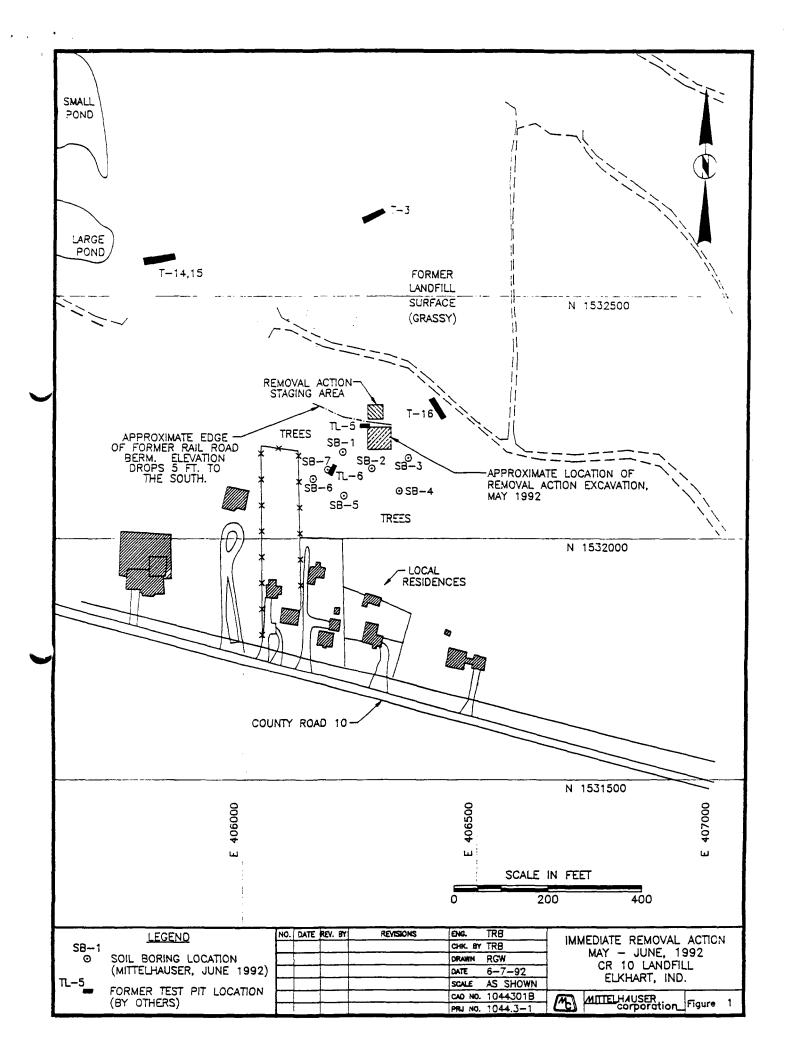


TABLE 2

SAMPLE COLLECTION INFORMATION AND FIELD SCREENING RESULTS
LIMITED EXTENT OF CONTAMINATION SURVEY
JUNE 4, 1992

		SAMPLE	READING		
		DEPTH		(PPM)	
<u>s</u>	AMPLE	(FT)	SCAN	HEADSPACE	REMARKS
			•		
S	B1-1	0-2	5	8	Sand.
	1-2	2-4	_	-	Refuse; no recovery.
	1-3	4-6	5	14	Sand, saturated.
*	1-4	6-8	5	16	Sand, saturated.
		•			
*S	B2-1	0-2	5	11	Sand.
_		2-4	_		Refuse; no recovery.
	2-3	4-6	_	25	Water w/trace refuse.
	2 3				mader wy crade retable.
S	B3-1	0-2	3	9	Sand.
		2-4	2	6	Sand w/refuse, sat.
•	3-3	4-6	130	20	Sand/peat.
~	J-J	4-0	130	20	Sand/peac.
S	B4-1	0-2	5	8	Sand.
٥	4-2	2-4	7	10	Sand w/refuse, sat.
	4-3	4-6	2	10	Refuse over sand.
~	4-7	4-0	2	10 ,	Reluse Over Sand.
c	B5-1	0-2	1	11	Sand.
3	5-2	2-4	3	11	Sand.
	5-3	4-6	1	10	Sand.
		6-8	1	11	Sand.
.4.		-	2	11	
*	5-5	8-10	2	11	Sand, saturated.
_	D.C. 1	0.0	•		03
S	B6-1	0-2	3	11	Sand.
	6-2	2-4	3	9	Sand.
	6-3	4-6	1	10	Sand.
*	6-4	6-8	1	10	Sand, saturated.
S	B7-1	0-2	10	12	Sand w/refuse.
*	, -	2-4	10	15	Sand w/refuse.
	7-3	4-6	7	11	Sand w/refuse.
	7-4	6-8	3	11	Sand, saturated.

^{*} Submitted for laboratory analysis.

TABLE 3 CR 10 LANDFILL EXTENT OF CONTAMINATION SURVEY SOIL SAMPLE ANALYTICAL RESULTS: 6/4/92

Sample Collection Information									· · · · · · · · · · · · · · · · · · ·	
and Parameters	SB1-4	SB1-4D	SB2-1	SB3-3	SB4-3	SB5-5	SB6-4	SB7-2		
Date: 6/4/92 Depth (ft)	6-8'	6-8'	0-2'	4-6'	4-6'	8-10'	6-8'	2-4'		
Compound Detected (ug/kg) Volatile Organics										
1,1 - Dichloroethane	<5U	<5 U	<5 U	110	<5 U	<5 U	<5 U	<5 U		
Toluene	<5U	<5 U	<5 U	<5 U	8.4	<5 U	<5 U	<5 U		
Ethylbenzene	11	23	<5 U	340	34	<5 U	<5 U	97		1
Xylenes (total)	54	170	12	1600	37	<5 U	<5 U	930		
1,3 - Dichlorobenzene	8.5	10	29	<5 U						

SECTION 4

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4.0 WASTE DISPOSAL DOCUMENTATION

4.1 DISPOSAL OF EMPTY DRUMS

On July 24, 1992, 57 empty drums, plus drum fragments, were transported from the site by American Waste Haulers, Inc., Maywood, Illinois, to American Waste Processing, Ltd., Maywood, Illinois. In accordance with 40 CFR 261.7, these drums (plus fragments) were managed for transport and disposal as non-hazardous, empty drums. A copy of the American Waste Processing Generic Non-hazardous Waste Stream Permit is included in Appendix C. Also included in Appendix C is a copy of the Illinois Uniform Waste Manifest under which the empty drums were transported.

The 57 drums, plus fragments, were those staged on May 22, 1992 in one of two lined roll-off boxes (see Table 1), as previously discussed. During the removal action, these drums were considered to be essentially empty and did not warrant overpacking. However, several of these drums did contain some paint waste solids at the time of recovery and staging. On July 23, 1992, each drum recovered during the removal action (but not overpacked) was inspected by Mittelhauser and American Waste personnel. Those drums found to contain waste materials were cut open, and the contents were manually transferred into a reconditioned 55-gallon 17H DOT drum. The total number of empty drums recovered from the excavation shown in Table 1 and the waste manifest (Appendix C) differ only because American Waste did not count two partial drums in their inventory, although those fragments were transported with the 57 intact drums.

As a result of cleaning the drums on July 23, 1992, five additional 55-gallon drums of paint waste solids, contaminated debris and soil, protective clothing, and plastic sheeting were generated. At that time, the 33-gallon drum containing the asphalt product (Table 1) was also overpacked in one of the reconditioned 55-gallon drums, and one drum containing paint waste solids and semi-solids was placed into an 85-gallon overpack drum. The wastes drummed on July 23, 1992 (5 @ 55 gallons; 1 @ 85 gallons) were placed in the second roll-off box containing the other drummed wastes staged May 22, 1992.

The empty drums were shredded at the American Waste facility and later sold to Cozzi Iron & Metal, Inc., Chicago, Illinois, for smelting and metals recycling. A copy of the American Waste Certificate of Disposal for the destruction of the empty drums is included in Appendix C.

4-2

August 1992 1044BL

4.2 DISPOSAL OF TANKER WASTE

The liquid solvent waste and contaminated groundwater that was recovered during the removal action and pumped into the tanker was managed for transport and disposal as an F005 listed hazardous waste (40 CFR 261.31). Waste sample analytical results of the 1991 USEPA investigation were used to profile the wastes recovered during the removal action. Tanker waste profile information is included in Appendix D.

The tanker containing the solvent waste remained onsite until August 3, 1992. At that time, a second, empty tanker was delivered to the site, into which the wastes in the original tanker were transferred. The wastes were then transported by Laidlaw to their Reidsville, North Carolina storage facility under Illinois Uniform Hazardous Waste Manifest (Appendix D). The empty tanker remained onsite for later pickup.

The tanker waste was re-manifested at the Laidlaw Reidsville facility, at which time Laidlaw assumed the title of waste generator (see Appendix D). On August 5, 1992, the waste was transported in the tanker to the designated Laidlaw disposal facility [a.k.a. Thermal Oxidation Corporation (TOC)] in Roebuck, South Carolina, where the waste was incinerated. A certificate of waste destruction was not available from Laidlaw at the time of this report, but will be provided as a report addendum as soon as the paperwork is processed.

4.3 DISPOSAL OF DRUMMED WASTE

On August 10 and 11, 1992, Mittelhauser and Laidlaw personnel removed the final inventory of removal action wastes from the site. The drummed wastes and empty reconditioned drums that had been staged in the second roll-off box since May 22, 1992, were inventoried, appropriately labelled, and transferred to a Laidlaw transport vehicle. The six drums generated on July 23, 1992 during the drum cleaning activities described in Section 4.1 were also managed at that time for offsite transport and disposal. In addition to the 14 empty drums that were used during the removal action for temporary storage of solvent waste, two reconditioned empty drums that had not been used for any purpose during the removal were manifested for offsite transport. One final drum of waste was generated on August 11, 1992, consisting of residual waste liquid from the Laidlaw tanker that was emptied August 3, 1992 (Section 4.2).

4-3

August 1992 1044BL

The inventory of wastes and drums removed from the site on August 11, 1992 is summarized as follows:

Drums Generated during Removal Action; May 1992

9 drums 85-gallon overpack drums; 3 of these drums were overpacked into 110-gallon drums on August 10, 1992

5 drums 55-gallon reconditioned 17H drums

Drums Generated from Cleaning Empties; July 1992

5 drums 55-gallon reconditioned 17H drums

1 drum 85-gallon overpack drum

Empty Drums

14 drums 55-gallon reconditioned 17H drums; last containing paint solvent waste

2 drums 55-gallon reconditioned 17H drums; unused during removal action

Drums Generated by Removing Tanker Residual; August 1992

1 drum 55-gallon reconditioned 17H drum

The 37 drums described above were removed from the site by Laidlaw on August 11, 1992, and transported to the Laidlaw TSD facility in Pecatonica, Illinois. The 16 empty drums were managed as non-hazardous empty drums. The drummed wastes were managed as F005 listed hazardous waste. A copy of the Illinois Uniform Hazardous Waste Manifest under which the drums were transported to the Laidlaw Pecatonica facility is included in Appendix E.

The drummed wastes were re-manifested at the Laidlaw Pecatonica facility on August 14, 1992, at which time Laidlaw assumed the title of waste generator (see Appendix E). The drummed wastes were then transported by J.B. Hunt Transport, Inc. to Marine Shale Processors, Inc., located in Morgan City, Louisiana, for incineration. A copy of the Louisiana Uniform Hazardous Waste Manifest under which the drummed wastes were

4-4

August 1992 1044BL

transported to Marine Shale is included in Appendix E. The waste shipment to Marine Shale also included wastes unrelated to the County Road 10 Landfill site. At the time of this report, Certificates of Destruction from Marine Shale were not available, but will be provided as a report addendum as soon as the paperwork has been processed.

The remaining 16 empty drums were purchased from Laidlaw by Jakacki Bag and Barrel, Inc., Chicago, Illinois, for reconditioning.

APPENDIX A

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August 1992 1044BR

APPENDIX A

Removal Action Photographic Documentation



PHOTOGRAPH #1 Date: 05/19/92

Name: TRB Time: 0935

Direction: NNE

<u>Description</u>: TL5 area prior to removal action. East end of east-west trending TL5 test pit marked by stake left of center

by stake, left-of-center.

PHOTO LOG C.R. 10 Landfill - 1044.03-01 Elkhart, Indiana Removal Action



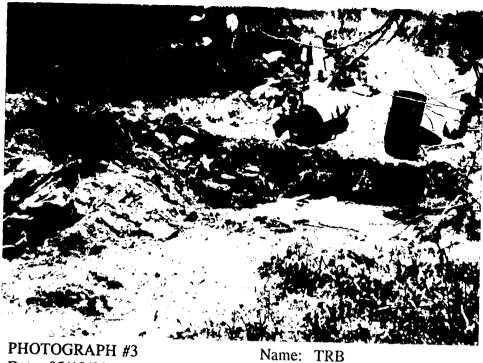
PHOTOGRAPH #2

Date: 05/19/92

Name: TRB Time: 1135

Direction: South

<u>Description:</u> Initial removal groundbreaking. Stake marking east end of TL5 test pit seen at far right-of-center.



Time: 1225

PHOTOGRAPH #3 Date: 05/19/92

Direction: SSE

Description: View of excavation showing static water level at approximately 2.5 to 3 feet below grade. PID readings above water reach up to 450 ppm. Product leaking from unexposed, buried drum is visible in upper-right corner of excavation. PID readings above product reach up to 4500 ppm.

PHOTO LOG C.R. 10 Landfill - 1044.03-01 Elkhart, Indiana Removal Action



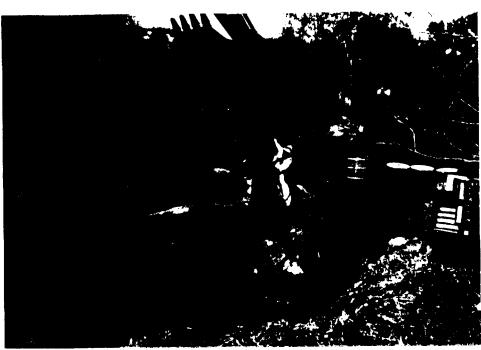
Name: TRB

Time: 1345

PHOTOGRAPH #4 Date: 05/19/92

Direction: SSE

<u>Description:</u> Partially-submerged drums and floating product visible in south wall of excavation.



PHOTOGRAPH #5 Date: 05/20/92 Name: TRB Time: 0800

Direction: South

Description: Recovering product from drum

recovered from south wall of excavation.

PHOTO LOG C.R. 10 Landfill - 1044.03-01 Elkhart, Indiana Removal Action



PHOTOGRAPH #6

Name: TRB Time: 0630

Date: 05/21/92 Direction: SE

Description: Recovering product from surface of

groundwater in excavation.



PHOTOGRAPH #7 Date: 05/21/92 Name: TRB Time: 0700

Direction: SE

<u>Description:</u> Vacuum/tanker truck. Recovered

product pumped into tanker.

PHOTO LOG C.R. 10 Landfill - 1044.03-01 Elkhart, Indiana Removal Action



PHOTOGRAPH #8 Date: 05/21/92 Name: TRB Time: 0725

Direction: SE

Description: Drum removal using rim clamps.



PHOTOGRAPH #9 Date: 05/21/92

Name: TRB Time: 0745

Direction: SE

<u>Description:</u> Vacuum pumping product from cavity of excavated drum. Drum contents were removed by in-situ vacuum pumping prior to lifting drum from excavation.

PHOTO LOG C.R. 10 Landfill - 1044.03-01 Elkhart, Indiana Removal Action

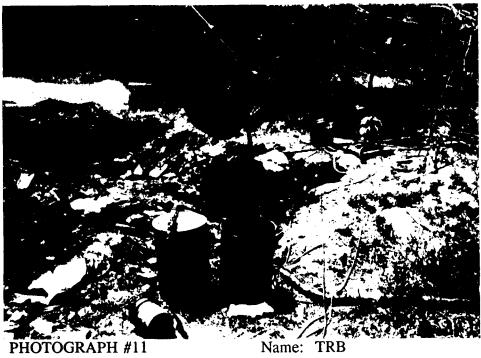


PHOTOGRAPH #10 Date: 05/21/92

Name: TRB Time: 1220

Direction: SW

Description: Removal of empty drum for temporary staging on plastic sheeting. Laidlaw worker inspects bank of excavation for additional drums.

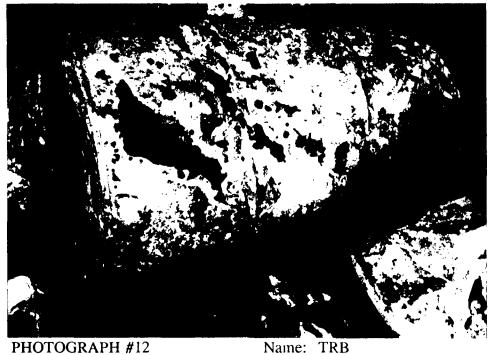


Date: 05/21/92

Direction: SW

Description: Drum containing liquid waste being removed from west wall of excavation with rim clamps.

PHOTO LOG C.R. 10 Landfill - 1044.03-01 Elkhart, Indiana Removal Action



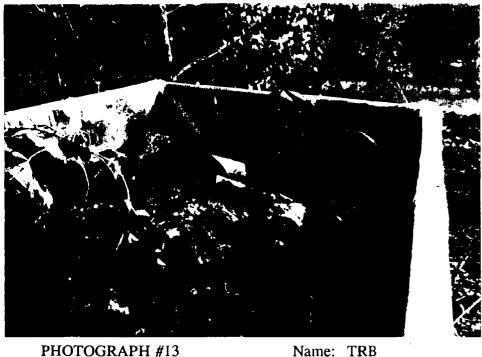
Time: 0810

PHOTOGRAPH #12

Date: 05/22/92

Direction: N/A

Description: Close-up of empty drum in lined roll-off box showing typical deteriorated condition.



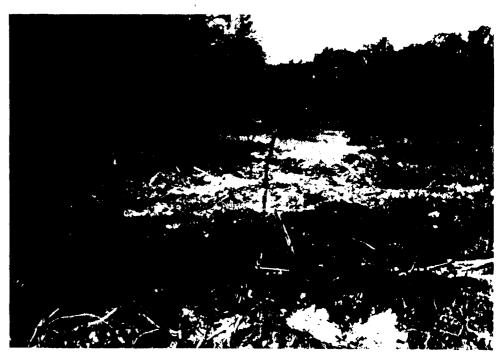
PHOTOGRAPH #13

Date: 05/22/92

Direction: South

Description: View of empty drums in lined roll-off box showing typical deteriorated condition.

PHOTO LOG C.R. 10 Landfill - 1044.03-01 Elkhart, Indiana Removal Action



Name: TRB

Time: 0935

PHOTOGRAPH #14

Date: 05/22/92

Direction: South

Description: Backfilled excavation after completion

of drum and product recovery activities.



PHOTOGRAPH #15 Date: 06/04/92 Name: TRB Time: 0930

Direction: South

Description: Soil boring SB 3 location. Near southeast corner of removal action excavation.

PHOTO LOG C.R. 10 Landfill - 1044.03-01 Elkhart, Indiana Removal Action



PHOTOGRAPH #16

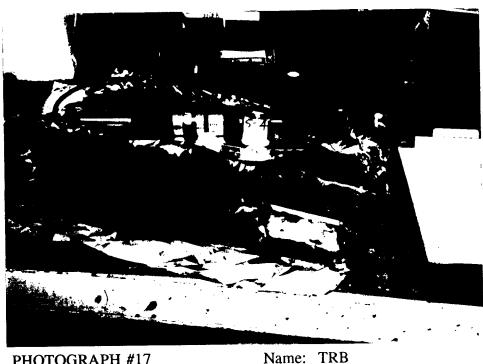
Name: TRB Time: 1050

Date: 06/04/92

Direction: NE

Description: Soil boring SB 5 location. USEPA

TAT representative in foreground.



PHOTOGRAPH #17

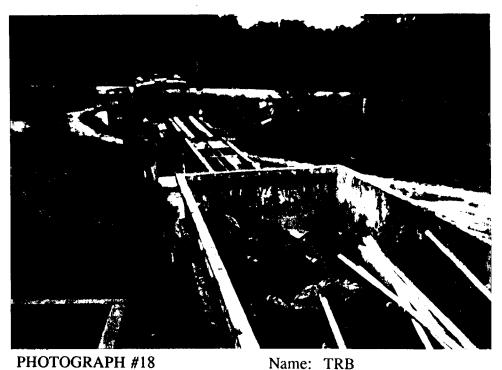
Date: 06/04/92

Direction: N/A

Description: Split spoon sample SB 5-4; 6-8 foot

depth interval. Sorted medium sand, typical.

PHOTO LOG C.R. 10 Landfill - 1044.03-01 Elkhart, Indiana Removal Action



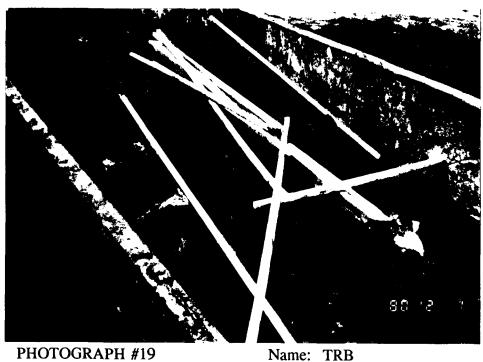
Time: 1000

PHOTOGRAPH #18

Date: 07/24/92

Direction: South

Description: Empty drums recovered during removal action being loaded onto American Waste Haulers truck for offsite transport and recycling.

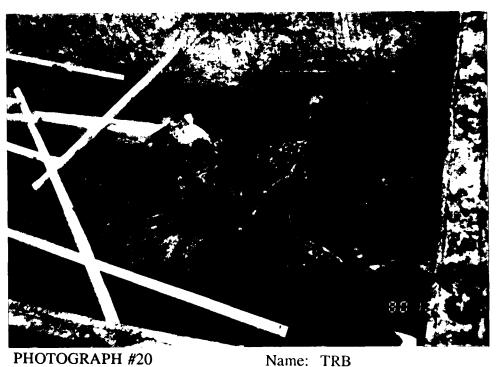


PHOTOGRAPH #19 Date: 07/24/92

Direction: Southeast

Description: Empty drums recovered during removal action in American Waste Haulers roll-off box after drum emptying activities of 7/23/92.

PHOTO LOG C.R. 10 Landfill - 1044.03-01 Elkhart, Indiana Removal Action July 1992



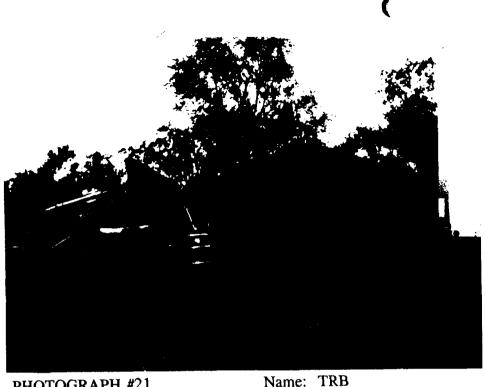
Time: 1000

PHOTOGRAPH #20

Direction: Southeast

Description: Empty drums recovered during removal action in American Waste Haulers roll-off box after drum emptying activities of 7/23/92.

Date: 07/24/92



PHOTOGRAPH #21 Date: 08/10/92

Direction: Northeast

<u>Description:</u> Laidlaw personnel unloading removal action drummed wastes staged in lined roll-off box.

PHOTO LOG C.R. 10 Landfill - 1044.03-01 Elkhart, Indiana Removal Action



PHOTOGRAPH #22 Date: 08/10/92 Name: TRB Time: 1400

Direction: East

<u>Description:</u> Laidlaw personnel labeling drummed wastes following removal from lined roll-off box.

.



C.R. 10 Landfill Removal Action Elkhart, IN August 1992 1044BR

APPENDIX B

Chain of Custody Form and Analytical Results of Soil Samples Collected June 4, 1992

JANTE:	.:::AUCER corporation	
	corporation	

CHAIN OF CUS. ODY RECORD

20506

1240 IROQUOIS DRIVE • SUITE 102 • NAPERVILLE, IL 60563 (708) 369 0201 PAGE / OF /

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SB5-5	74/9Z	1120	Soul	Soul	boring	SBS	-			-	Icel	2	
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PINK	TE, MITTELHA ARY, LABORA (, CLIENT D, PROJECT	ATORY	ORPORAT	ION	REMARKS: S	Split some SBI-4 for duplicate analysis.							



Tel: (815) 874-2171 Fax: (815) 874-5622

ANALYTICAL REPORT

Ms. Michelle Susic

MITTELHAUSER CORPORATION 1240 Iroquois Dr., Ste.102

Naperville, IL 60563

06/22/1992

Job No:

92.1839

Sample No: 104809

SAMPLE DESCRIPTION:

SB1-4, Grab Soil

104.03-01 CR 10 Landfill

ate Taken: 06/04/1992 IEPA Cert. No.100220 Date Received: 06/05/1992

WDNR Cert. No.999447240

·				DATE
TEST NAME	RESULTS	<u>UNITS</u>	<u>METHODS</u>	<u>ANALYZED</u>
VOLATILE COMPOUNDS - 8240				
Acrolein	<500.	ug/kg	8240 (1)	06/18/1992
Acrylonitrile	<50.	ug/kg	8240 (1)	06/18/1992
Benzene	<5.0	ug/kg	8240 (1)	06/18/1992
Bromodichloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
Bromoform	<5.0	ug/kg	8240 (1)	06/18/1992
Bromomethane	<50.	ug/kg	8240 (1)	06/18/1992
Carbon tetrachloride	<5.0	ug/kg	8240 (1)	06/18/1992
Chlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Chloroethane	<50.	ug/kg	8240 (1)	06/18/1992
2-Chloroethyl vinyl ether	<10.	ug/kg	8240 (1)	06/18/1992
loroform	<5.0	ug/kg	8240 (1)	06/18/1992
M loromethane	<50.	ug/kg	8240 (1)	06/18/1992
Dibromochloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,3-Dichlorobenzene	8.5	ug/kg	8240 (1)	06/18/1992
1,4-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloropropane	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992
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NET Midwest, Inc. Rockford Division 3548 35th Street Rockford, IL 61109 Tel: (815) 874-2171 Fax: (815) 874-5622

ANALYTICAL REPORT

Ms. Michelle Susic

MITTELHAUSER CORPORATION

1240 Iroquois Dr., Ste.102

Naperville, IL 60563

06/22/1992

Job No:

92.1839

Sample No:

104809

SAMPLE DESCRIPTION:

SB1-4, Grab Soil

104.03-01 CR 10 Landfill

te Taken: 06/04/1992 TPA Cert. No.100220 Date Received: 06/05/1992

WDNR Cert. No.999447240

TEST NAME	RESULTS	<u>UNITS</u>	METHODS	DATE <u>ANALYZED</u>
Ethylbenzene	11.	ug/kg	8240 (1)	06/18/1992
Methylene chloride	<25.	ug/kg	8240 (1)	06/18/1992
Methyl ethyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
Methyl isobutyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2,2-Tetrachloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Tetrachloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Toluene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,1-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Trichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Vinyl chloride	<50.	ug/kg	8240 (1)	06/18/1992
' lenes	54.	ug/kg	8240 (1)	06/18/1992





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ANALYTICAL REPORT

Ms. Michelle Susic MITTELHAUSER CORPORATION 1240 Iroquois Dr., Ste.102 Naperville, IL 60563 06/22/1992

Job No: Sample No:

92.1839

SAMPLE DESCRIPTION:

SB1-4 DUP, Grab Soil

104.03-01 CR 10 Landfill

ate Taken: 06/04/1992 TEPA Cert. No.100220 Date Received: 06/05/1992

WDNR Cert. No.999447240

 TEST NAME
 RESULTS
 UNITS
 METHODS
 DATE ANALYZED

 Solids, Total
 62.6
 %
 160.3 (3)
 06/08/1992





Tel: (815) 874-2171 Fax: (815) 874-5622

ANALYTICAL REPORT

Ms. Michelle Susic MITTELHAUSER CORPORATION

1240 Iroquois Dr., Ste.102

Naperville, IL 60563

06/22/1992

Job No:

92.1839

Sample No: 105325

SAMPLE DESCRIPTION:

SB1-4 DUP, Grab Soil 104.03-01 CR 10 Landfill

ite Taken: 06/04/1992 TEPA Cert. No.100220

Date Received: 06/05/1992

WDNR Cert. No.999447240

				DATE
TEST NAME	RESULTS	<u>UNITS</u>	<u>METHODS</u>	<u>ANALYZED</u>
VOLATILE COMPOUNDS - 8240				
Acrolein	<500.	ug/kg	8240 (1)	06/18/1992
Acrylonitrile	<50.	ug/kg	8240 (1)	06/18/1992
Benzene	<5.0	ug/kg	8240 (1)	06/18/1992
Bromodichloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
Bromoform	<5.0	ug/kg	8240 (1)	06/18/1992
Bromomethane	<50.	ug/kg	8240 (1)	06/18/1992
Carbon tetrachloride	<5.0	ug/kg	8240 (1)	06/18/1992
Chlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Chloroethane	<50.	ug/kg	8240 (1)	06/18/1992
2-Chloroethyl vinyl ether	<10.	ug/kg	8240 (1)	06/18/1992
`loroform	<5.0	ug/kg	8240 (1)	06/18/1992
loromethane	<50.	ug/kg	8240 (1)	06/18/1992
Dibromochloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,3-Dichlorobenzene	10.	ug/kg	8240 (1)	06/18/1992
1,4-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloropropane	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992
		,,		, ,





Tel: (815) 874-2171 Fax: (815) 874-5622

ANALYTICAL REPORT

Ms. Michelle Susic MITTELHAUSER CORPORATION 1240 Iroquois Dr., Ste.102 Naperville, IL 60563 06/22/1992

Job No: Sample No:

92.1839 105325

SAMPLE DESCRIPTION:

SB1-4 DUP, Grab Soil

104.03-01 CR 10 Landfill

ate Taken: 06/04/1992 ■EPA Cert. No.100220 Date Received: 06/05/1992 WDNR Cert. No.999447240

DATE TEST NAME RESULTS UNITS **METHODS** <u>ANALYZED</u> Ethylbenzene 06/18/1992 23. ug/kg 8240 (1) Methylene chloride <25. ug/kg 8240 (1) 06/18/1992 Methyl ethyl ketone ug/kg 8240 (1) 06/18/1992 <5.0 Methyl isobutyl ketone 8240 (1) 06/18/1992 <5.0 ug/kg 1,1,2,2-Tetrachloroethane 06/18/1992 <5.0 ug/kg 8240 (1) 06/18/1992 Tetrachloroethene <5.0 ug/kg 8240 (1) 06/18/1992 <5.0 8240 (1) Toluene ug/kg 06/18/1992 1,1,1-Trichloroethane <5.0 ug/kg 8240 (1) 8240 (1) 06/18/1992 1,1,2-Trichloroethane <5.0 ug/kg <5.0 8240 (1) 06/18/1992 Trichloroethene ug/kg 06/18/1992 Vinyl chloride <50. ug/kg 8240 (1) Vylenes 170. 06/18/1992 ug/kg 8240 (1)





Fax: (815) 874-5622

ANALYTICAL REPORT

Ms. Michelle Susic MITTELHAUSER CORPORATION 1240 Iroquois Dr., Ste.102 Naperville, IL 60563

06/22/1992

Job No: Sample No:

92.1839 104807

SAMPLE DESCRIPTION:

SB2-1, Grab Soil

104.03-01 CR 10 Landfill

ite Taken: 06/04/1992 TEPA Cert. No.100220

Date Received: 06/05/1992

WDNR Cert. No.999447240

DATE TEST NAME RESULTS UNITS METHODS ANALYZED Solids, Total 94.4 z 160.3 (3) 06/08/1992





Fax: (815) 874-5622

ANALYTICAL REPORT

Ms. Michelle Susic MITTELHAUSER CORPORATION

1240 Iroquois Dr., Ste.102

Naperville, IL 60563

06/22/1992

Job No: 92.1839 Sample No: 104807

SAMPLE DESCRIPTION:

SB2-1, Grab Soil

104.03-01 CR 10 Landfill

06/04/1992 ate Taken: EPA Cert. No.100220

Date Received: 06/05/1992 WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE <u>ANALYZED</u>
VOLATILE COMPOUNDS - 8240				
Acrolein	<500.	ug/kg	8240 (1)	06/18/1992
Acrylonitrile	<50.	ug/kg	8240 (1)	06/18/1992
Benzene	<5.0	ug/kg	8240 (1)	06/18/1992
Bromodichloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
Bromoform	<5.0	ug/kg	8240 (1)	06/18/1992
Bromomethane	<50.	ug/kg	8240 (1)	06/18/1992
Carbon tetrachloride	<5.0	ug/kg	8240 (1)	06/18/1992
Chlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Chloroethane	<50.	ug/kg	8240 (1)	06/18/1992
2-Chloroethyl vinyl ether	<10.	ug/kg	8240 (1)	06/18/1992
Chloroform	<5.0	ug/kg	8240 (1)	06/18/1992
loromethane	<50.	ug/kg	8240 (1)	06/18/1992
Dibromochloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,3-Dichlorobenzene	29.	ug/kg	8240 (1)	06/18/1992
1,4-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloropropane	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992





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ANALYTICAL REPORT

Ms. Michelle Susic MITTELHAUSER CORPORATION 1240 Iroquois Dr., Ste.102 Naperville, IL 60563

06/22/1992

Job No: 92.1839 Sample No: 104807

SAMPLE DESCRIPTION:

SB2-1, Grab Soil 104.03-01 CR 10 Landfill

ite Taken: 06/04/1992 TEPA Cert. No.100220

Date Received: 06/05/1992 WDNR Cert. No.999447240

TEST NAME	RESULTS	<u>UNITS</u>	METHODS	DATE <u>ANALYZED</u>
Ethylbenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Methylene chloride	<25.	ug/kg	8240 (1)	06/18/1992
Methyl ethyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
Methyl isobutyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2,2-Tetrachloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Tetrachloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Toluene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,1-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Trichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Vinyl chloride	<5.0	ug/kg	8240 (1)	06/18/1992
lenes	12.	ug/kg	8240 (1)	06/18/1992





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ANALYTICAL REPORT

Ms. Michelle Susic MITTELHAUSER CORPORATION 1240 Iroquois Dr., Ste.102 Naperville, IL 60563

06/22/1992

Job No: Sample No: 92.1839 104802

SAMPLE DESCRIPTION:

SB3-3, Grab Soil

104.03-01 CR 10 Landfill

te Taken: 06/04/1992 TEPA Cert. No.100220

Date Received: 06/05/1992 WDNR Cert. No.999447240

DATE TEST NAME RESULTS UNITS METHODS ANALYZED Solids, Total 22.6 ક્ષ 06/08/1992 160.3 (3)





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ANALYTICAL REPORT

Ms. Michelle Susic

MITTELHAUSER CORPORATION 1240 Iroquois Dr., Ste.102

Naperville, IL 60563

06/22/1992

Job No:

92.1839

Sample No: 104802

SAMPLE DESCRIPTION:

SB3-3, Grab Soil

104.03-01 CR 10 Landfill

ate Taken: 06/04/1992 IEPA Cert. No.100220 Date Received: 06/05/1992

WDNR Cert. No.999447240

TEST NAME	RESULTS	<u>UNITS</u>	METHODS	DATE <u>ANALYZED</u>
VOLATILE COMPOUNDS - 8240				
Acrolein	<500.	ug/kg	8240 (1)	06/18/1992
Acrylonitrile	<50.	ug/kg	8240 (l)	06/18/1992
Benzene	<5.0	ug/kg	8240 (1)	06/18/1992
Bromodichloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
Bromoform	<5.0	ug/kg	8240 (1)	06/18/1992
Bromomethane	<50.	ug/kg	8240 (1)	06/18/1992
Carbon tetrachloride	<5.0	ug/kg	8240 (1)	06/18/1992
Chlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Chloroethane	<50.	ug/kg	8240 (1)	06/18/1992
2-Chloroethyl vinyl ether	<10.	ug/kg	8240 (1)	06/18/1992
loroform	<5.0	ug/kg	8240 (1)	06/18/1992
chloromethane	<50.	ug/kg	8240 (1)	06/18/1992
Dibromochloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,3-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,4-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethane	110.	ug/kg	8240 (1)	06/18/1992
1,2-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloropropane	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992





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ANALYTICAL REPORT

Ms. Michelle Susic

MITTELHAUSER CORPORATION 1240 Iroquois Dr., Ste.102

Naperville, IL 60563

06/22/1992

Job No:

92.1839

Sample No: 104802

SAMPLE DESCRIPTION:

SB3-3, Grab Soil

104.03-01 CR 10 Landfill

te Taken: 06/04/1992 TEPA Cert. No.100220 Date Received: 06/05/1992

WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	<u>METHODS</u>	DATE <u>ANALYZED</u>
Ethylbenzene	340.	ug/kg	8240 (1)	06/18/1992
Methylene chloride	<25.	ug/kg	8240 (1)	06/18/1992
Methyl ethyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
Methyl isobutyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2,2-Tetrachloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Tetrachloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Toluene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,1-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Trichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Vinyl chloride	<50.	ug/kg	8240 (1)	06/18/1992
lenes	1,600.	ug/kg	8240 (1)	06/18/1992
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ANALYTICAL REPORT

Ms. Michelle Susic MITTELHAUSER CORPORATION 1240 Iroquois Dr., Ste.102 Naperville, IL 60563

06/22/1992

Job No: Sample No: 92.1839 104803

SAMPLE DESCRIPTION:

SB4-3, Grab Soil

104.03-01 CR 10 Landfill

ite Taken: 06/04/1992 IEPA Cert. No.100220 Date Received: 06/05/1992 WDNR Cert. No.999447240

 TEST NAME
 RESULTS
 UNITS
 METHODS
 ANALYZED

 Solids, Total
 72.0
 %
 160.3 (3) 06/08/1992





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ANALYTICAL REPORT

Ms. Michelle Susic MITTELHAUSER CORPORATION 1240 Iroquois Dr., Ste.102 Naperville, IL 60563

06/22/1992

Job No: Sample No: 104803

92.1839

SAMPLE DESCRIPTION:

SB4-3, Grab Soil

104.03-01 CR 10 Landfill

te Taken: 06/04/1992 IEPA Cert. No.100220

Date Received: 06/05/1992

WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE <u>ANALYZED</u>
VOLATILE COMPOUNDS - 8240				
Acrolein	<500.	ug/kg	8240 (1)	06/18/1992
Acrylonitrile	<50.	ug/kg	8240 (1)	06/18/1992
Benzene	<5.0	ug/kg	8240 (1)	06/18/1992
Bromodichloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
Bromoform	<5.0	ug/kg	8240 (1)	06/18/1992
Bromomethane	<50.	ug/kg	8240 (1)	06/18/1992
Carbon tetrachloride	<5.0	ug/kg	8240 (1)	06/18/1992
Chlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Chloroethane	<50.	ug/kg	8240 (1)	06/18/1992
2-Chloroethyl vinyl ether	<10.	ug/kg	8240 (1)	06/18/1992
loroform	<5.0	ug/kg	8240 (1)	06/18/1992
Coloromethane	<50.	ug/kg	8240 (1)	06/18/1992
Dibromochloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,3-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,4-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloropropane	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992





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ANALYTICAL REPORT

Ms. Michelle Susic MITTELHAUSER CORPORATION

1240 Iroquois Dr., Ste.102

Naperville, IL 60563

06/22/1992

Job No: Sample No:

92.1839 104803

SAMPLE DESCRIPTION:

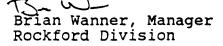
SB4-3, Grab Soil

104.03-01 CR 10 Landfill

ate Taken: 06/04/1992 €PA Cert. No.100220

Date Received: 06/05/1992 WDNR Cert. No.999447240

TEST NAME	RESULTS	<u>UNITS</u>	METHODS	DATE <u>ANALYZED</u>
Ethylbenzene	34.	ug/kg	8240 (1)	06/18/1992
Methylene chloride	<25.	ug/kg	8240 (1)	06/18/1992
Methyl ethyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
Methyl isobutyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2,2-Tetrachloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Tetrachloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Toluene	8.4	ug/kg	8240 (1)	06/18/1992
1,1,1-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Trichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Vinyl chloride	<50.	ug/kg	8240 (1)	06/18/1992
Vilenes	37.	ug/kg	8240 (1)	06/18/1992







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ANALYTICAL REPORT

Ms. Michelle Susic

MITTELHAUSER CORPORATION 1240 Iroquois Dr., Ste.102

Naperville, IL 60563

06/22/1992

Job No:

92.1839

Sample No: 104804

SAMPLE DESCRIPTION:

SB5-5, Grab Soil

104.03-01 CR 10 Landfill

ate Taken: 06/04/1992 IEPA Cert. No.100220

Date Received: 06/05/1992 WDNR Cert. No.999447240

DATE TEST NAME UNITS RESULTS <u>METHODS</u> ANALYZED Solids, Total 84.7 160.3 (3) 06/08/1992





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ANALYTICAL REPORT

Ms. Michelle Susic MITTELHAUSER CORPORATION 1240 Iroquois Dr., Ste.102

Naperville, IL 60563

06/22/1992

Job No: 92.1839 Sample No: 104804

SAMPLE DESCRIPTION:

SB5-5, Grab Soil

104.03-01 CR 10 Landfill

ate Taken: 06/04/1992 EPA Cert. No.100220

Date Received: 06/05/1992 WDNR Cert. No.999447240

DATE TEST NAME RESULTS ANALYZED UNITS <u>METHODS</u> VOLATILE COMPOUNDS - 8240 Acrolein <500. ug/kg 8240 (1) 06/18/1992 ug/kg Acrylonitrile <50. 8240 (1) 06/18/1992 Benzene <5.0 06/18/1992 ug/kg 8240 (1) Bromodichloromethane 8240 (1) <5.0 06/18/1992 ug/kg Bromoform 8240 (1) <5.0 06/18/1992 ug/kg Bromomethane <50. 8240 (1) 06/18/1992 ug/kg ug/kg Carbon tetrachloride <5.0 8240 (1) 06/18/1992 06/18/1992 Chlorobenzene <5.0 ug/kg 8240 (1) 06/18/1992 <50. Chloroethane ug/kg 8240 (1)2-Chloroethyl vinyl ether 06/18/1992 <10. ug/kg 8240 (1)loroform <5.0 8240 (1) 06/18/1992 ug/kg 8240 (1) **M**loromethane <50. 06/18/1992 ug/kg Dibromochloromethane 8240 (1) 06/18/1992 <5.0 ug/kg 1,2-Dichlorobenzene <5.0 ug/kg 8240 (1) 06/18/1992 1,3-Dichlorobenzene <5.0 06/18/1992 ug/kg 8240 (1) 8240 (1) 06/18/1992 1,4-Dichlorobenzene <5.0 ug/kg 06/18/1992 1,1-Dichloroethane <5.0 ug/kg 8240 (1) 1,2-Dichloroethane <5.0 ug/kg 8240 (1) 06/18/1992 <5.0 06/18/1992 1,1-Dichloroethene ug/kg 8240 (1) trans-1,2-Dichloroethene <5.0 ug/kg 8240 (1) 06/18/1992 cis-1,2-Dichloroethene <5.0 ug/kg 8240 (1) 06/18/1992 1,2-Dichloropropane ug/kg 8240 (1) 06/18/1992 <5.0 06/18/1992 cis-1,3-Dichloropropene <5.0 ug/kg 8240 (1) trans-1,3-Dichloropropene <5.0 ug/kg 8240 (1) 06/18/1992





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ANALYTICAL REPORT

Ms. Michelle Susic MITTELHAUSER CORPORATION

06/22/1992

1240 Iroquois Dr., Ste.102 Naperville, IL 60563

Job No: 92.1839 Sample No: 104804

SAMPLE DESCRIPTION:

SB5-5, Grab Soil

104.03-01 CR 10 Landfill

te Taken: 06/04/1992 *EPA Cert. No.100220

Date Received: 06/05/1992 WDNR Cert. No.999447240

TEST NAME	RESULTS	<u>UNITS</u>	METHODS	DATE <u>ANALYZED</u>
Ethylbenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Methylene chloride	<25.	ug/kg	8240 (1)	06/18/1992
Methyl ethyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
Methyl isobutyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2,2-Tetrachloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Tetrachloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Toluene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,1-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Trichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Vinyl chloride	<50.	ug/kg	8240 (1)	06/18/1992
lenes	<5.0	ug/kg	8240 (1)	06/18/1992





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ANALYTICAL REPORT

Ms. Michelle Susic MITTELHAUSER CORPORATION 1240 Iroquois Dr., Ste.102 Naperville, IL 60563 06/22/1992

Job No: 92 Sample No: 10

92.1839 104805

SAMPLE DESCRIPTION:

SB6-4, Grab Soil

104.03-01 CR 10 Landfill

ate Taken: 06/04/1992 EPA Cert. No.100220 Date Received: 06/05/1992

WDNR Cert. No.999447240

 TEST NAME
 RESULTS
 UNITS
 METHODS
 DATE ANALYZED

 Solids, Total
 88.8
 %
 160.3 (3)
 06/08/1992





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ANALYTICAL REPORT

Ms. Michelle Susic

MITTELHAUSER CORPORATION 1240 Iroquois Dr., Ste.102

Naperville, IL 60563

06/22/1992

Job No: 92.1839 Sample No:

104805

SAMPLE DESCRIPTION:

SB6-4, Grab Soil

104.03-01 CR 10 Landfill

Pate Taken: 06/04/1992 JEPA Cert. No.100220

Date Received: 06/05/1992 WDNR Cert. No.999447240

TEST NAME	RESULTS	<u>UNITS</u>	<u>METHODS</u>	DATE <u>ANALYZED</u>
VOLATILE COMPOUNDS - 8240				
Acrolein	<500.	ug/kg	8240 (1)	06/18/1992
Acrylonitrile	<50.	ug/kg	8240 (1)	06/18/1992
Benzene	<5.0	ug/kg	8240 (1)	06/18/1992
Bromodichloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
Bromoform	<5.0	ug/kg	8240 (1)	06/18/1992
Bromomethane	<50.	ug/kg	8240 (1)	06/18/1992
Carbon tetrachloride	<5.0	ug/kg	8240 (1)	06/18/1992
Chlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Chloroethane	<50.	ug/kg	8240 (1)	06/18/1992
2-Chloroethyl vinyl ether	<10.	ug/kg	8240 (1)	06/18/1992
Chloroform	<5.0	ug/kg	8240 (1)	06/18/1992
lloromethane	<50.	ug/kg	8240 (1)	06/18/1992
Dibromochloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,3-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,4-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloropropane	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992
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ANALYTICAL REPORT

Ms. Michelle Susic MITTELHAUSER CORPORATION

1240 Iroquois Dr., Ste.102

Naperville, IL 60563

06/22/1992

Job No:

92.1839

Sample No: 104805

SAMPLE DESCRIPTION:

SB6-4, Grab Soil

104.03-01 CR 10 Landfill

ite Taken: 06/04/1992 PA Cert. No.100220 Date Received: 06/05/1992 WDNR Cert. No.999447240

TEST NAME	RESULTS	<u>UNITS</u>	<u>METHODS</u>	DATE <u>ANALYZED</u>
Ethylbenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Methylene chloride	<25.	ug/kg	8240 (1)	06/18/1992
Methyl ethyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
Methyl isobutyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2,2-Tetrachloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Tetrachloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Toluene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,1-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Trichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Vinyl chloride	<50.	ug/kg	8240 (1)	06/18/1992
lenes	<5.0	ug/kg	8240 (1)	06/18/1992





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ANALYTICAL REPORT

Ms. Michelle Susic

MITTELHAUSER CORPORATION 1240 Iroquois Dr., Ste.102

Naperville, IL 60563

06/22/1992

Job No:

92.1839

Sample No:

104806

SAMPLE DESCRIPTION:

SB7-2, Grab Soil

104.03-01 CR 10 Landfill

ate Taken: 06/04/1992 IEPA Cert. No.100220 Date Received: 06/05/1992 WDNR Cert. No.999447240

TEST NAME RESULTS UNITS METHODS ANALYZED

Solids, Total 85.0 % 160.3 (3) 06/08/1992





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ANALYTICAL REPORT

Ms. Michelle Susic MITTELHAUSER CORPORATION

MITTELHAUSER CORPORATION 1240 Iroquois Dr., Ste.102 Naperville, IL 60563 06/22/1992

Job No: 92.1839 Sample No: 104806

SAMPLE DESCRIPTION:

SB7-2, Grab Soil

104.03-01 CR 10 Landfill

`ate Taken: 06/04/1992 EPA Cert. No.100220 Date Received: 06/05/1992 WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	<u>METHODS</u>	DATE <u>ANALYZED</u>
VOLATILE COMPOUNDS - 8240				
Acrolein	<500.	ug/kg	8240 (1)	06/18/1992
Acrylonitrile	<50.	ug/kg	8240 (1)	06/18/1992
Benzene	<5.0	ug/kg	8240 (1)	06/18/1992
Bromodichloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
Bromoform	<5.0	ug/kg	8240 (1)	06/18/1992
Bromomethane	<50.	ug/kg	8240 (1)	06/18/1992
Carbon tetrachloride	<5.0	ug/kg	8240 (1)	06/18/1992
Chlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
Chloroethane	<50.	ug/kg	8240 (1)	06/18/1992
2-Chloroethyl vinyl ether	<10.	ug/kg	8240 (1)	06/18/1992
Chloroform	<5.0	ug/kg	8240 (1)	06/18/1992
	<50.	ug/kg	8240 (1)	06/18/1992
Dibromochloromethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,3-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,4-Dichlorobenzene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,2-Dichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
1,2-Dichloropropane	<5.0	ug/kg	8240 (1)	06/18/1992
cis-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992
trans-1,3-Dichloropropene	<5.0	ug/kg	8240 (1)	06/18/1992





Tel: (815) 874-2171 Fax: (815) 874-5622

ANALYTICAL REPORT

Ms. Michelle Susic MITTELHAUSER CORPORATION 1240 Iroquois Dr., Ste.102 Naperville, IL 60563 06/22/1992

Job No: 92.1839 Sample No: 104806

SAMPLE DESCRIPTION:

SB7-2, Grab Soil

104.03-01 CR 10 Landfill

ate Taken: 06/04/1992 EPA Cert. No.100220 Date Received: 06/05/1992 WDNR Cert. No.999447240

TEST NAME	RESULTS	<u>UNITS</u>	<u>METHODS</u>	DATE <u>ANALYZED</u>
Ethylbenzene	9.7	ug/kg	8240 (1)	06/18/1992
Methylene chloride	<25.	ug/kg	8240 (1)	06/18/1992
Methyl ethyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
Methyl isobutyl ketone	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2,2-Tetrachloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Tetrachloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Toluene	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,1-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
1,1,2-Trichloroethane	<5.0	ug/kg	8240 (1)	06/18/1992
Trichloroethene	<5.0	ug/kg	8240 (1)	06/18/1992
Vinyl chloride	<50.	ug/kg	8240 (1)	06/18/1992
"vlenes	930.	ug/kg	8240 (1)	06/18/1992



APPENDIX C



C.R. 10 Landfill Removal Action Elkhart, IN August 1992 1044BR

APPENDIX C

Transport and Disposal Documentation for Empty Drums Recovered from Excavation During Removal Action



AMERICAN WASTE PROCESSING, LTD.

P.O. Box 306 Maywood, Illinois 60153 (312) 681-3999

NON-HAZARDOUS PERMIT

REFERENCE NO. 900157	DATE ENTERED
WASTE STREAM NO. 000157	
THIS APPLICATION IS A (CHECK ONE) X NEW APP	LICATION RENEWAL
THIS APPLICATION IS FOR WASTE (CHECK ONE)	STORAGE X TREATMENT
	•••••••••••••••
siπ	E
AMERICAN WASTE PROCESSING, LTD.	
2010 WEST MADISON STREET	IEPA SITE CODE 0 3 1 1 8 3 0 0 0 2
COOK/MAYWOOD, IL 60153	DISPOSAL METHOD 28
(312) 681-3999	TREATMENT 21
SITE CONTACT NAME JOSEPH A. STROSNIK	STORAGE METHOD 01
THE UNDERSTIGNED HEREBY MAKES A SUPPLEMENTAL PI	ERMIT FOR THE STORAGE OR TREATMENT OF THIS
WASTE STREAM AS STATED ABOVE.	
SIGNATURE MILE	DATE
(OWNER/ALTHORIZED AGENT/OPERATOR)	
WASTE GENERATOR	RINFORMATION
PLANT ADDRESS	MAILING ADDRESS
NAME COUNTY ROAD 10 LANDFILL	NAME HIMCO WASTE - AWAY SERVICE, INC.
MODESS COUNTY ROAD 10 & NAPPANEE STREET	ADDRESS _P.O. BOX 1268
	ELKHART /ELKHART / IN / A6515-1268
COUNTY COMMUNITY STATE ZIP	COUNTY COMMUNITY STATE ZIP
GENERATOR IEPA CODE 9 1 8 0 3 9 7 7 2 1	
GENERATOR CONTACT NAME TIM BARTLET (MITTELHAL	JSER) TELEPHONE (708) 369-0201 -
PROCESS/OPERATION NAMES SITE CLEAN-UP	
PROCESS DESCRIPTION SITE CLEAN-UP	
GENERIC WASTE NAME "RCRA" EMPTY DRUMS PREVIOU	ISLY CONTAINING PAINT PRODUCTS

WASTE CHARACTERISTICS

usepa hazaroous	S WASTE NO(S)		
TOTAL ANNUAL W	ASTE VOLUME 50 CONTAINE	RS WASTE	CLASS
TRANSPORT FREQU	VENCY 1	VOLUME UNITS 2	waste phase 3
2 - DAILY 3 - WEEDCLY	7 - QUARTERLY	1 - CLBIC YAROS 2 - GALLONS	1 - SOLID 2 - SEMI-SOLID 3 - LIQUID
i - Bi-WEERLY	8 - SIMI-ANNULLY		4 • GAS 5 • POMDERS
	COMPONENT NAME		PERCENT
RCRA EMPTY CO	NTAINERS		1 0 0 0 0 0
			
	FIRE HAZARD COR	ROSIVE REACTIV	ĸ ·
SOLID WASTE .			
GOLID WASTE - GOES THIS WASTE PESTICIDES, BIG	FIRE HAZARD COR ENERATOR - ANSWER ALL QUE E CONTAIN ANY EXPLOSIVES, OLOGICAL OR RADIOACTIVE M	STIONS, SIGN, DATE AND HERBICIDES, INSECTICE	DES, PATHOGENS, PCBS,
GOLID WASTE - GOES THIS WASTE PESTICIDES, BIG	FIRE HAZARD COR ENERATOR - ANSWER ALL QUE E CONTAIN ANY EXPLOSIVES, OLOGICAL OR RADIOACTIVE M	STIONS, SIGN, DATE AND HERBICIDES, INSECTICE	DES, PATHOGENS, PCBS,
GOLID WASTE - GOES THIS WASTI PESTICIDES, BIG	FIRE HAZARD COR ENERATOR - ANSWER ALL QUE E CONTAIN ANY EXPLOSIVES, OLOGICAL OR RADIOACTIVE MONORMAN ON THE CONTAIN ANY EXPLOSIVES	STIONS, SIGN, DATE AND HERBICIDES, INSECTICE ATERIAL? YES	DES, PATHOGENS, PCBS,
GOLID WASTE - GOES THIS WASTE - PESTICIDES, BIG F YES EXPLAIN	FIRE HAZARD COR- ENERATOR - ANSWER ALL QUE E CONTAIN ANY EXPLOSIVES, OLOGICAL OR RADIOACTIVE MA NON-HAZ "RCRA" EMPT	STIONS, SIGN, DATE AND HERBICIDES, INSECTICE ATERIAL! YES	DES, PATHOGENS, PCBS,
GOLID WASTE - GOES THIS WASTI PESTICIDES, BIG F YES EXPLAIN CHIPPING DESCR	ENERATOR - ANSWER ALL QUE E CONTAIN ANY EXPLOSIVES, OLOGICAL OR RADIOACTIVE M NON-HAZ "RCRA" EMPT IPTION	HERBICIDES, INSECTICATE AND ATERIAL? YES	DES, PATHOGENS, PCBS, NO X
GOLID WASTE - COES THIS WASTI PESTICIDES, BIG F YES EXPLAIN HIPPING DESCR IN OR NA NO	FIRE HAZARD COR- ENERATOR - ANSWER ALL QUE E CONTAIN ANY EXPLOSIVES, OLOGICAL OR RADIOACTIVE MA NON-HAZ "RCRA" EMPT	STIONS, SIGN, DATE AND HERBICIDES, INSECTICATERIAL? YES DOT: HAZARD CLASSNO	DES, PATHOGERS, PCBS, NO X
GOLID WASTE - GOES THIS WASTE PESTICIDES, BIG IF YES EXPLAIN SHIPPING DESCR IN OR NA NO QUANTITY OF WA	ENERATOR - ANSWER ALL QUE E CONTAIN ANY EXPLOSIVES, OLOGICAL OR RADIOACTIVE M NON-HAZ "RCRA" EMPT IPTION	HERBICIDES, INSECTICE ATERIALT YES DOT HAZARD CLASSNO METHOD OF S	DES, PATHOGENS, PCBS, NO X N-HAZ WAN TRAILER
GOLID WASTE - GOES THIS WASTE PESTICIDES, BIG IF YES EXPLAIN SHIPPING DESCR UN OR NA NO. QUANTITY OF WA DRUMS I HEREBY CERTI	ENERATOR - ANSWER ALL QUE E CONTAIN ANY EXPLOSIVES, OLOGICAL OR RADIOACTIVE M NON-HAZ "RCRA" EMPT IPTION EPA HW NO. STE PER DELIVERY 50 DRUMS TANKER ROLL-O	HERBICIDES, INSECTICATE AND ABILITY	DES, PATHOGENS, PCBS, NO X N-HAZ WAN TRAILER



GENERIC WASTE STREAM PERMIT ATTACHMENT

SITE CODE: 0311830002

GENERIC W/S PERMIT NUMBER: 000157

SITE NAME: AMERICAN WASTE PROCESSING LTD SUP/OP PERMIT NUMBER: 19872169P

DATE RECEIVED: 09/02/86

APPROVAL DATES 11718/86 EXPIRATION DATE: 10/24/93

GENERIC WASTE CODE: 0069

GENERIC WASTE NAME: SPENT PRODUCTS

STE CLASSIFICATION: NON-HAZARDOUS NOT SUBJECT TO FEE

IEPA NON-HAZARD WASTE NUMBER(S): 0020-

TREATMENT CODE(S): SOI

FLASH POINT (MIN.: 140F

PH (MIN):

PH (MAX): 12.5

---- MAJOR WASTE, COMPONENTS ----

CODE: NAME

MAX LIMITS

2.5

0212 PALLETS

0213 TIRES 0100 x VOL-

RCRA "EMPTY" CONTAINERS

0100 % VQL

DISPOSAL METHOD: WASTE' TREATMENT

WEATMENT METHOD: OTHER (SPECIFIED IN ATTACHMENT TO APPLICATION)

WRH-

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 52794-9276 (217) 782-5761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

spill call

Ξ

filmois Office

of Emergency

twsponso at

21/1/82-/860

LPC 52 8/81 State Form LEASE TÝPE EPA Form 8700-22 (Rev. 9-88) (Form designed for use on elite (12-bitch) types Form Approved, OMB No. 2050-0039, Extures 9-30-92 UNIFORM HAZZERIZATIES Information in the shaded areas is not required by Federal law, but is required by 1. Generator's US EPA ID No. **WASTE MANIFEST** Slings law A. Illinois Manifest Document Number 3. Generator's Name and Mailing Address Location If Different FEE PAID COUNTY ROAD 10 LANDFILL IF APPLICABLE B. Illinois COUNTY ROAD & NAPPANEE STREET ELKHART, IND 46514 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* (219) ID US EPA ID Number C. Illinois Transporter's ID 5. Transporter 1 Company Name <u>10 10 15 19</u> AMERICAN WASTE HAULERS. D. (708) 681-3999 Transporter's Phone US EPA ID Number 7. Transporter 2 Company Name 8. E. Illinois Transporter's ID Transporter's Phone US EPA ID Number 10. G. Illinois 9. Designated Facility Name and Site Address Facility's 10 13 11 11 18 13 10 10 10 12 AMERICAN WASTE PROCESSING, LTD. 2010 WEST MADISON STREET H. Facility's Phone MAYWOOD, ILLINOIS 60153 (708)681 - 399911. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13. Total Unit Waste No. Туре Wt/Vol Quantity XCLASS Ε NON-HAZARDOUS "RCRA" EMPTY CONTAINERS $0_{1}0_{1}0_{1}0_{1}0$ / DM | 10:0:1:5:7 n C. K. Handling Codes for Wastes Listed Above In Item #14 J. Additional Description for Materials Listed Above and the National Response Center 900157/000157 G = Gallons Y = Cubic Yards 15. Special Handling Instructions and Additional Information IN CASE OF EMERGENCY NOTIFY (708)681-3999 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that i can afford. Cate Printed/Typed Name Month Jay 7 3 008 17. Transporter 1 Acknowledgement of Receipt of Materials Month Day Printed/Typed Name 424-8802 0 7 2 3 9 H.P. MULLIGAN 18. Transporter 2 Acknowledgement of Receipt of Materials Care Day Year Printed/Typed Name Signature Month 2 202 / 426-26 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of materials covered by this manifest except as noted in item 19. Date Cay Year trosuik

AMERICAN WASTE HAULERS, INC.

P.O. Box 306 Maywood, Illinois 60153 (708) 681-3999 Fax: (708) 681-5583

CERTIFICATE OF DISPOSAL

THIS CER	TIFICATE IS TO VERIFY THAT THE DRUMS PICKED-UP AT
	COUNTY ROAD 10 LANDFILL
	COUNTY ROAD 10 & NAPPANEE ROAD
	ELKHART, INDIANA 46514
HAS BEEN	PROPERLY SHREDDED AND DISPOSED OF IN ACCORDANCE WITH
ALL LOCA	L, STATE AND FEDERAL REGULATION.
NUMBER O	F DRUMS:FIFTY-SEVEN (57)
FACILITY	NAME: AMERICAN WASTE PROCESSING, LTD.
ADDRESS:	2010 WEST MADISON STREET
	MAYWOOD, ILLINOIS 60153
SIGNED:_	JOSEPH A. STROSNIK
	JOSEPH A. SIROSIYIK

APPENDIX D

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C.R. 10 Landfill Removal Action Elkhart, IN August 1992 1044BR

APPENDIX D

Transport and Disposal Documentation for Liquid Solvent Waste in Tanker

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 | IL532-0610

FOR SHIPMENT OF HARDOUS AND SPECIAL WASTE

N	OTE: FORM DESIGNED TO PRINT 8 LINES PER		EPA Form 8700-22	(Rev. 5-89)	Form A	pproved, OMB N	ło. 2050-0039, Excines 9-30-92
1	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA I IN9180397721	ID No.	Manifest Document No. としょうと	2. Page 1. of 1	required t	in the shaded areas is not by Federal law, but is Illinois Law.
	3. Generator's Name and Mailing Address	Location If Diff				nifest Docume	
	HIMCO WASTE AWAY SERVICE.		I ROAD 10 LA	INDFILL	का जिस	¥655 3	Applicable
	P. O. 1268, ELKHART, IN 46	515-1268			B. Iffinois		
	4. * 24 HOUR EMERGENCY AND SPILL ASSISTANCE	E NUMBERS - 1-800	<u>-335-5053</u> (567)	D.	7118	19397721
	5. Transporter 1 Company Name	6.	US EPA ID Nun	ber	C: Minois Tra	naporter's ID	1010 1 5
	LAIDLAW ENV SYCS OF ILLINO	IS, INC. IID	090502444				Transporter's Phone
	7. Transporter 2 Company Name	8.	US EPA ID Num	ber	E. Illinois Tra	nsporter's ID	1111
					Fi_()		Transporter's Phone
	9. Designated Facility Name and Site Address	10.	US EPA ID Num	nber	G. Illinois Facility's II		119750-09
	LAIDLAN ENVIRONMENTAL SERV	ICES (TS), INC.			H. Facility's F		11 4 3 5 W-W E
	ROUTE 11, P. G. BOK 3	1				ويحاري وجعا سا	
	REIDSVILLE, NC 27320		000648451			342-51	
	11. US DOT Description (Including Proper Shipping	Name, Hazard Class, and I	'D Number)	12. Conta			Init Waste No.
۱		<u> </u>		No.			v∕Val
G	a RG WASTE FLAMMABLE LIQUE	D. M.O.S. (TOLU					EPA HW Number
E	BENEZENE), FLANMABLE			5)			Authorization Number
N	•	· · · · · · · · · · · · · · · · · · ·		10.0.1	T.TUON	13 M B C	EPA hW Number
_	7.						X X L L L L
A							Authorization Number
T							EPA HW Number
O R	c.						X XI TOWN
``						• .	Authorization Number
	d.	·			• ! ! !	<u> </u>	EPA HW Number
	u.						XXIIIII
						,	Authorization Number
	J. Additional Descriptions for Materials Listed Al	TOTAL CONTRACTOR OF THE STREET, AND ADDRESS OF T	To Transport the Sample of California		K Handing	Cadaa far Wa	stes Listed Above
	11a_RYLBOTO1 - ADDITIONAL	RDA ROOS			in item #		istes fisted vicore
					-6-6	allone V	= Cubic Yards
					- G = G	ا - داناناه چ	- Copic raius
				الم الم			<i>:</i>
	15. Special Handling Instructions and Additional	Information	Pa an Assault Street	لفسدنف	<u> </u>	· · ·	
	16. GENERATOR'S CERTIFICATION: I hereby declare	that the contents of this cons	ignment are fully and	accurately descr	ribed above by		
	proper shipping name and are classified, packed, n		n all respects in prope	er condition for t	ransport by high	way	
	according to applicable international and national g If I am a large quantity generator, I certify that	•	to reduce the volum	a and toxicity of	of waste genera	ited to the de-	gree I have catermined
	to be economically practicable and that I have se	lected the practicable metho	d of treatment, storag	ge, or disposal (currently availab	le to me which	n minimizes the present
	and future threat to human health and the envir and select the best waste management method tha			i nave made :	a good taith er	rort to minimiz	Cate
	Printed / Typed Name	Si	gnature	11	,		Month Day Year
V	والمنطق والمستمون		and the same	ر این ای ک د	ر. در در د		06-0802
T	17. Transporter 1 Acknowledgement of Receipt	of Materials					Cate
R A	Printed / Typed Name	Si	gnature		120		Month Day Year
3	Gerree R HOLTZ J.	n k	(DALOC	Pl Ph	r 1884 2		-12195121A
ANSPORTER	18. Transporter 2 Acknowledgement of Receipt		·		2		Cate
T	Printed / Typed Name	Si	gnature				Month Day Year
Ř							
	19. Discrepancy Indication Space	~,			11	- 23.5	-1 -6-
	19. Discrepancy Indication Space	lush mint of	rice train	140 -	The State	$\sigma = DC$	
40-	not entry-	j j					
	1000						
1 [20. Facility Owner or Operator: Certification of re	eceipt of hardous material:	s covered by this m	anifest except	as noted in it	em 19.	Care
Ţ	Printed / Typed Name		gnature		٠ - مسمد مد		
	Kodney K. Martin		سسيني بمشاسر	74 M			Month Jay Year
	4 MARCH 17 17 BL 17 1 MARCH 1711			1111			



TRAZOROR-WE LAC-L-TY

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt. 2600 Bull Street, Columbia, SC 29201

Phone: (803) 734-5200

Emergency & Holidays: (803)253-6488

PLEASE PRINT OF TYPE	(Form designed for use on elite [12-pitch] type	ewriter	Forn	n Approved. OMB N	lo. 2050	-0039 Expires 9-30-91
UNIFORM HAZARDOUS N.C.D	tor's U.S. EPA ID No. Manu 0 0 0 6 4 8 4 5 1 3 1 3 1 3	est 2 nt2No4	Page 1 of			haded areas is not w. but is by State law.
Generator's Name and Mailing Address LAIDLAW ENVIRONMENTAL SERVICES (TS), INC	,			te Manifest Docum	ent Num	ber and the control of the control o
RT. 11, BOX 3 208 WATLINGTON INDUSTRIAL	ROAD, REIDSVILLE, NC 27320		B. Sta	te Generator's ID	•	
Transporter 1 Company Name	6. U.S. EPA ID Number		C. Sta	te Transporter's ID		
LAIDLAN BAV. SER. OF ILL. INC.	I, L, D, 9, 8, 0, 5, 0, 2	744		- CDC//CF 3 F HOILE	(812)	239-2377
Transporter 2 Company Name	U.S. EPA ID Number			nsporter's Phone		
Designated Facility Name and Site Address	10. U.S. EPA ID Number	<u> </u>		te Facility's ID		
LAIDLAN ENVIRONMENTAL SERVICES (TOC), IN 361 RAILROAD STREET	l c.		H. Fac	ality's Phone		
ROBBUCK, SC 29376	S,C,D,9,8,1,4,6,7	6,1,6	(1	803) 576-10	285	
11. U.S. DCT Description (including Proper Shipping Name.	Hazard Class, and ID Number)	12. Cant No.	ainers Type	13. Total Quantity	14 Unit Wt/Voi	I. Waste Number
"VZARDOUS WASTE LIQUID, M.O.S., (WATER, T	CLUENE), ORM-E					F, Ø, Ø, 5
1 419189		0,0,1	TT	1,0,0,0,0	P	
			1			
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* Additional Descriptions for Materials Listed Above			K. Han	dling Codes for Wa	istes Lis	ted Above
d. T 0 - T 0 0 6 4 - 0 8 1 5 64	c	لبا				
`	4			· · · · · · · · · · · · · · · · · · ·		
cial Handing Instructions and Additional Information	Profile a.RVLB0101		Sperace	37 minutes for generator	s. 15 minu	information is estimated to les for transporters, and 10 actities. This includes time
BPA Waste b. Codes c.	Hunbers b. C.	1	for review	eng instructions, gatherii Send comments regar	ng data, ani ding The t	a completing and reviewing ourgen leshmate, including Chief Information Policy
d. WO#: 13707 Emergency Contact:	1-800-535-5053 (598)	ļ	Granch F Washing	M-223.U.S. Environmen	rai Protect e Office of	ion Agency, 401 M.St., S.W. Information and Regulatory
GENERATOR'S CERTIFICATION: I hereby declare that the packed, marked, and labeled, and are in all respects in proper						
the laws of the State of South Carolina. If I am a large quantity generator, I certify that I have a program	•				_	_
practicable and that I have selected the practicable method of health and the environment; OR, if I am a small quantity general that is available to me and that I can afford.	of treatment, storage, or disposal currently ava	ilable to me	WINCH I	hinimizes the prese	nt and fu	iture threat to human
inted/Typed Name Rodney K. Martin	Signatu					Month Day Year 0, 8, 0, 5, 9, 2
*. Transporter 1 Acknowledgement of Receipt of Materials						
Grinted/Typed Name	Signature	1/0 (AQ'			lonth Day Year
18. Transporter 2 Acknowledgement of Receipt of Materials	1 Delice	7400	3	 		08/05/912
Printed/Typed Name	Signature			4	N	Ionth Day Year
19. Discrepancy Indication Space				a , , , , ,	libs. c] , , , , bs.
				* <u> </u>	libs. d	1
ി. Facility Owner or Operator, Certification of receipt of hazard	and materials covered by the manifest and	ne golad i-	item 10		- 	
Printed/Typed NameTIM NELSON	Signature	//	item 19			Ionth Day Year
THE INCLUDING	Signature 7in Med	G	-			0,50,75,2



NAME OF WASTE STREAM

MATERIAL PROFILE	Water and Paint Solvents
Title County Sow C NASANCE ST. City FINHART County ELKHAFT State Zip Code 16574. EPA Identification Number ZND 980500292 State Identification Number	Is Sample Available Upon Request? Yes No
Process Generating Waste & POULIN WULLY CONTINUE Type/Size Fairles PA Waste No. POOL FOULS 1. Does this waste contain spent solvents (F001 through F005)? Y N Materials listed under the State of Pool of Poo	Does it contain PCB's> 50ppm? Y NN
Layers: None Two Free Liquids (%) 77 Provided In the Provided Internal Spirits Free Liquids (%) 77 Provided Internal Pumpable? Yes Medical Specific Weight (lhs/gal) 28,0 Appearance Diriginal Liquid Flash Point(cc): Exact Specific Weight (lhs/gal) 400°F	Somisolid
Metals (ppm) Total TCLP Total TCLP Total Total Total Total Total Total Total As	Other: (Specify in PPM) Free Cyanide < 1.0 Total Cyanide < 50.0 Free Sulfide Total Organic Halogens (%) Fluorine = Bromine Information Complated by Name = Children Date: Children Date

				CERTIFICATION		TUD 900 5029-	
Generator Name:	NTYSORO	ANDE	166		E	IND 980 500 29 Z IPA ID#	_
Location:	48T.						_
Profile#: WATER	+ PAIN	T SOLV	ENTS				_
CHARACTERISTICS OF F based on criteria mandated b					of the following cha	nracteristics	
	Regulatory			(Check	(One)		
	Threshold			Scientific	Generator's		
D001 01 1 1	Level	Yes	<u>No</u>	<u>Data</u>	Knowledge	Actual Value	

		Regulatory			(Chec	k One)	
		Threshold			Scientific	Generator's	
		Level	Yes	No	Data	Knowledge	Actual Value
D001	Characteristic	<140F					(2 ° ~~
	of Ignitability		X_{-}		<u> </u>		68°F
D002	Characteristic	<2 or	,	\\\\			
	of Corrosivity	≥12.5		· <u> </u>		$\underline{\hspace{1cm}}^{\hspace{1cm} \hspace{1cm} 1$	
D003	Characteristic			•			
	of Reactivity		<u> </u>	_×_			
	•			7			
		*Regulatory			(Chec	k One)	
		Threshold			Scientific	Generator's	Actual Value
	Constituent	Level, ppm	Yes	No	Data	Knowledge	(ppm)
						1210 10080	<u> </u>
D004	(Arsenic)	5.0					0
D005	· · · · · · · · · · · · · · · · · · ·	100.0		×	×		5, 7
D006	-	1.0		×			- O
D007	,	5.0			x		${\partial}$
D008	•	5.0		<u> </u>	x		0
D009	(Mercury)	0.2		y	*		\overline{o}
D010		1.0		×	<u></u>		0.7
D011	•	5.0			<u> </u>		0
	Endrin	0.02		₹	*	<u> </u>	
	Lindane	0.4				*	
	Methoxychlor	10.0		<u>×</u>		γ	
	Toxaphene	0.5				<u> </u>	
	2, 4-D	10.0		<u> </u>		<u> </u>	
2010	(2, 4-Dichlorophenoxya						
B017	2.4.5-TP Silvex	1.0		1		х	
		0.5		<u>*</u>			
D019	Carbon Tetrachloride	0.5		7		<u> </u>	
D020	Chlordane	0.03		<u> </u>		<u></u>	
D021	Chlorobenzene	100.0				*	
D022	Chioroform	6.0					
	o-Cresol	200.0				*	
	m-Cresol	200.0				<u> </u>	
	p-Cresol	200.0				<u> </u>	
	Cresol	200.0				*	
D027	1.4-Dichlorobenzene	7.5		×		<u> </u>	
D028	1.2 Dichloroethane	0.5		<u> </u>			
	1.1 Dichloroethylene	0.7		x		x	
	2.4-Dinitrotoluene	0.13		x	-		
	Heptachlor (and its	0.15					
2001	hydroxide)	0.008		7		y	
D032	Hexachlorobenzene			<u> </u>		X	
D032		0.13 0.5				<u> </u>	
	Hexachloroethane	3.0				$\frac{\hat{x}}{\hat{x}}$	
							
	Nitrobenzene	200.0 2.0					
	Pentachlorophenol	100.0				<u> </u>	
/ כטע	r entacimor opiicnot	100.0					

		*Regulatory			(Chec	k One)	
		Threshold			Scientific	Generator's	
Constitu	uent	Level, ppm	Yes	No	<u>Data</u>	<u>Knowledge</u>	Actual Val
D038 Pyridine	,	5.0				<u> </u>	
D039 Tetrachlo	roethylene	0.7		<u> </u>		<u>y</u>	
D040 Trichloro	ethylene	0.5		×		<u> </u>	
D041 2,4,5-Tric	chlorophenol	400.0		<u> </u>	 	<u>r</u>	
D042 2,4,6-Tric	chlorophenol	2.0				<u> </u>	
D043 Vinyl Ch	loride	0.2		<u> </u>			·
* As defined by	the TCLP (Met	thod 1311), EP	Toxicity is	no longer acce	ptable.		
Use of Generator	's Knowledge i	s based upon the	e following	(check one):			
1)	MDSD's (Plea	se attach)					
2)	Analysis (Plea	sce attach)					
²)	Milalysis (Fica	ise attach)					
3) X	Other (Explain	n how determine	ed example	· Not Present	in Process Producing	σì	
<u></u>					in Process Producing		
<u> </u>					in Process Producing		·
"LISTED" Hazar	parit s	olvent dr	ruma /	isokod 1		dwater	
	dous Wastes: I	ndicate if this w	vaste also co	ontains any lis	uto groun	s coded in	
	dous Wastes: I	ndicate if this w	vaste also co	ontains any lis	u fo groun	s coded in	· · · · · · · · · · · · · · · · · · ·
	dous Wastes: I	ndicate if this w	vaste also co	ontains any lis	u fo groun	s coded in	· · · · · · · · · · · · · · · · · · ·
	dous Wastes: I	ndicate if this w	vaste also co	ontains any lis	u fo groun	s coded in	
40 CFR 261.31, 2	dous Wastes: I	indicate if this w	vaste also co	ontains any lis	u fo groun	s coded in	
	dous Wastes: I	indicate if this w	vaste also co	ontains any lis	u fo groun	s coded in	
40 CFR 261.31, 2 F005 GENERATOR C	dous Wastes: I	indicate if this was 33 by including	vaste also co	ontains any listriate EPA Haz	ted hazardous waste ardous Waste code(s coded in	
40 CFR 261.31, 2 F00.5 GENERATOR C I hereby	dous Wastes: I 261.32 and 261.	indicate if this was 33 by including	vaste also co	ontains any listriate EPA Haz	ted hazardous waste ardous Waste code(s coded in s)	
FOO5 GENERATOR C I hereby and accurate. In	dous Wastes: I 261.32 and 261.	information subhis form is not fi	vaste also continuity the approp	ontains any listriate EPA Haz	ted hazardous waste ardous Waste code(s coded in s)	
40 CFR 261.31, 2 F00.5 GENERATOR C I hereby	dous Wastes: I 261.32 and 261.	information subhis form is not fi	vaste also continuity the approp	ontains any listriate EPA Haz	ted hazardous waste ardous Waste code(s coded in s)	
FOO5 GENERATOR C I hereby and accurate. In	dous Wastes: I 261.32 and 261.	information subhis form is not fi	vaste also continuity the approp	ontains any listriate EPA Haz	ted hazardous waste ardous Waste code(s coded in s)	
FOOS GENERATOR C I hereby and accurate. In the services to conduct the services	dous Wastes: I 261.32 and 261.	information subhis form is not fi	vaste also continuity the approp	ontains any listriate EPA Haz	ted hazardous waste cardous Waste code(attached document Laidlaw Environment the form.	s coded in s)	
FOO5 GENERATOR C I hereby and accurate. In	dous Wastes: I 261.32 and 261.	information subhis form is not fi	vaste also continuity the approp	ontains any listriate EPA Haz	ted hazardous waste ardous Waste code(s coded in s)	

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C.R. 10 Landfill Removal Action Elkhart, IN August 1992 1044BR

APPENDIX E
Transport and Disposal Documentation for Drummed Wastes

This Agency is authorized to require, pursuant to illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure is provide this information may result in a civil penalty against the owner or operator not to exceed 525,000 per day of violation, Failsfication of this information may result in a fine up is \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

Sicnature

Cate

Say

Year

Month

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name

LAIDLAW Use Only The MSP Haz W. Solid Was



NAME OF WASTE STREAM

MATERIAL PF	ROFILE HMO- VOL	Solid Paint
ANDEN	Technical Contact	Is San

Generalor Name COCCATO TO AND FICE TO Technical Contact Technical Contact Title	ls Sample Avaitable Upon Request?
COUNTY TOAD 10 9 Mappense ST. Telephone ()EXT	
Billing Address	Yes
CityELKIHART County FLKHART	No V
State Zip Code _ 46514	
EPA Identification Number TN D 980 500 292 City State Zip	-
Process Congrating Waste Arith exallabed from lanifill	
Rate of Generation ONE Time Container Type/Size 55, R5, or 110 EPA Waste No. F00,5 State Waste No. 1. Does this waste contain spent solvents (F001 through F005)? Y N Materials listed under the California list? Y N	
I. Does this waste contain spent solvents (F001 through F005)? YN Materials listed under the California list? YN	
Tis this waste listed for Dioxin as defined in 40 CFR 262.317 (F020 - F023 and F026 - 28)YNN	•
	N
I. If you answered yes to questions 2 or 3,DO NOT CONTINUE. Please contact your LAIDLAW Technical Sales Representative for assistance.	
Chemical Constituents (Must Total 100%) Physical Characteristics at 70°E	•
Paint Pia Me 1/3	<u>/</u>
	
Millera Sflvits Q-27d Free Liquids (%) Q Precipitated Solids (%)	
Is Material Pumpable? Yes No Polymerizable? Yes	
Specific Weight (lbs./gal) /OR Specific Gravity(g/cc) / Appearance Various colored paint solids Odor	0
Appearance Virgous Colored paint 30/145 Odor	DULVEAT
Flash Point(cc): Exact <60°F 61°F - 100°F	
BTU/lb Ash(%) 35-50 Water(%) 4/	
pH (avg) Range to to	·
Reactivity (Reactive with):	
(Please Attach All MSDS's, Sample Analysis and Additional Info.)	
Metals (ppm) Other:(Specify in PPM)	
Free Cyanide O Pi	nenolics 2/0
Total TCLP Total TCLP Total Total Total Total Total Total Total Total Cyanide 450 PC	CB's
AS SI Free Sullide	
Ag Na	
$\alpha \sim 1$	
Ba VIS Se SUID S Cu Fluorine D Br Pb P Zii Chloring D D D D D D D D D <td>omine</td>	omine
certify that all information on this form is complete and factual (including attached information) and is an accurate representation of the known and Information Completed By: Name: Kyle Carrer Name: Kyle Carrer	
Detail March Dougles and March	10 Ph/18/97
Generators Signature Date Tille: Revited 1 at 2019 Date Date Date Date Date Date Date Date	no. PRILEFIA

. GREEN.TRANSCERT . YELLOW-DISPOSER . PINK-15" T.S.D . GOLD-GENERATOR

OBIGINAL-FINAL T.S D





Hmo -004

MT

Generator Name dimens County RD 10 [AND E]! 1-	TWAY SERVECTION CONTact		Is Sample Available Upon Request?
Facility Address CONNTY RID 10 AT MARPANCE ST	Tille	EVT	1'
Elking IV	• • • •	EXT	
City ELICIARY County	Billing Address		Yes
State Zip Code 4514			- No
EPA Identification Number 984500 292	City	StateZio	-
State Identification Number 9,90397721		Oldio	-
Process Generating Waste Dumped LCOOLDS			
Rate of GenerationOVE_TMIP_ Container Type/SizeSTS_/	EPA Waste No. NONE	State Waste No. NONE	· · · · · · · · · · · · · · · · · · ·
Does this waste contain spent solvents (F001 through F005)? Y Is this waste listed for Dioxin as defined in 40 CFR 262.31? (F020 - F023 and F	N Material's listed under	the California list? YNN	
2. Is this waste listed for Dioxin as defined in 40 CFH 262.317 (FU2U - FU2J and F 3. Is this waste INFECTIOUS? YNN	PADIOACTIVE? Y		N C
4. If you answered yes to questions 2 or 3,DO NOT CONTINUE. Please contact	your LAIDLAW Technical Sales Representative for	assistance.	
	hysical Characteristics at 70°F		
: 4 5: 6/			
BRUM - PAWT/WELEY 5-2%	Physical State: Liquid Two Two	Semisolid Solid	
ALSTONE - MINITIONIES DE L'IO			
	Free Liquids (%) 0-2-7-0 P	recipitated Solids (%)	
	Viscosity: Low Media		No 7
	ls Material Pumpable? Yes No _ Specific Weight (lbs./gal)	/OR Specific Gravily(g/cc)	NO
	Appearance	Odor	PAINT
	Flash Point(cc): Exact		
		141°F - 200°F >20	
	BTU/lb Ash(%) _	10/0 Water(%) 06	2/0
	pH (avg) Range		· · · · · · · · · · · · · · · · · · ·
	Reactivity (Reactive with):		
(Please Attach All MSDS's, Sample Analysis and Additional Info.)			
Metals (ppm)		Other:(Specify in PPM)	
Total TCLP Total TCLP	Total Total		Phenolics
Total TCLP Total TCLP As Cr(Total)	Total Total	Total Cyanide	PCB's
Ag Cr(Hex)		Free Sulfide	
Cd Ho	Sh c / Ni C /	Total Organic Halogens (%)	
Ba <u>C/O</u> O Se <u>C/</u>	S Cu Cu		Bromine
Pu	P.G./_ Zn.//	Chlorine	Biolimia
I certify that all intoyingtion on this form is complete and status (including attached inform	ntion) and is an accurate representation of the known and	Information Completed Joy	
suspected the wash to the disposed.	Q/10/97	Name: Assign Car Mill A	
Generators Signature	Dale	Title: Moret Mck	Date: 8-10-92

LAIDLAW Use Only Inc. 1989 W. Paint Related Material





NAME OF WASTE STREAM

MATERIAL PROFILE	HMO-003	Paint	Related	Mat	erial
HIMCO WASTET					01-

·.l\			
Generalor Name COUNTY ROAD CANDETICE	Why SERVICE		Is Sample Available
Facility Address County Roso Cappanete	Title		Upon Request?
County Novo Chappanot	Telephone ()	EXT	
City EXHALL County EXHALL			1.63
			No
State Zip Code 46.574. EPA Identification Number ZW. 280.50029Z State Identification Number	City	State Zip	
Process Generating Waste Wate Paint drums removed from	Landfill		
Rate of Generation Container Type/Size 55, 89	5, //0EPA Wasle No	State Waste No.	
Does this waste contain spent solvents (F001 through F005)? Y Is this waste listed for Dioxin as defined in 40 CFR 262.31? (F020 - F023 and			
2. Is this waste listed for Dioxin as defined in 40 CFR 262.317 (F020 - F023 and 3. Is this waste INFECTIOUS? YI	BIL RADIOACTIVE? Y	Does it contain PCB's> 50ppm? Y	N_V
4. If you answered yes to questions 2 or 3,DO NOT CONTINUE, Please conta	ct your LAIDLAW Technical Sales Representative for a	ssistance.	
Chemical Constituents (Must Total 100%)	Physical Characteristics at 70°F		
paint solids 10-95%		Semisolid Solid	
1 toluene 5-90%	Physical State: Liquid Two	Semisolid Solid	
toluene 5-90% mineral spirits 5-80%	Free Liquids (%) 5 - 90 Pr	ecipitated Solids (%) 5 25	
	Viscosity: Low Mediu	m High	
	Is Material Pumpable? Yes No. 2	Y Polymerizable? Yes	No 🗸
	Specific Weight (lbs./gal), 7-9	/OR Specific Gravity(g/cc)	
	Appearance Varies in Color	Odor	SCIVEN!
	Flash Point(cc): Exact <		
	101°F - 140°F	141°F - 200°F >200 75 % Waler(%) /	P°F
	BTU/lb 5000 Ash(%)		
)	Reactivity (Reactive with):		
(Please Attach All MSDS's, Sample Analysis and Additional Info.)	reactivity (reactive will).		
Metals (ppm)		Other:(Specify in PPM)	7.0
Total TCLP Total TCLF	Total Total		henolics_ 0</td
() CatTatall	Be SI		CB's
Ag Cr(Hex) O	Ti Na	Free Sullide	
Cd 0 Ho	Sb Ni	Total Organic Halogens (%)	
Ba <0.12 Se <0.1	Z S Cu	Fluorina0	romino <u>O</u>
Pb	P Zn	Chlorine	
/ I certify that all information on this form is complete and factual (including attached info suspected hazards of the waste to be disposed. /	. /~	Information Completed By:	·
	7/7/2	Name: Krie Carter Tille: Reliedial Mar. 1)	16/10/07
Generators Signature	Date	1110: 1-011 24 141 M9 12	ate: 2777777

LAIDLAW Use Only Inc USP

·z;



NAME OF WASTE STREAM

Tyvek + debris

ROLL OF SEVERATOR

GBEEN TRANS/CEBT

OPIGINAL FINAL TSE

TO THE STEEL SERVICES OF CONTRACT CONTRACTOR	CONTROLL NO AS EAST AT THE EAST					
Generator Name Crivillo	ANDFILL - HIME SERVI	O WASTE TE	AA/A / chnical Contact			Is Sample Available Upon Request?
(BUNT/A	RADIO C MAPPA	Te	lephone ()		EXT	
-11/1/4 0-	EI HILAD	Bill	•			Yes
City ELKHART	County ELKHART					No ./
State MYANA	Zip Code 46514					
EPA Identification Number	98050029Z	Cit	y	State	Zip	
	L'.					<u> </u>
Process Generating Waste PPE and	Plastic Tuna (Size	CDA V	Vacto No. EUO 5	Clute Weste No		
Rate of Generation	/F001 through F00512 V	N EFAV	Materials listed under	the California list? Y	N //	
2-15 this wasta listed for Dioxin as defined	in 40 CFR 262.31? (F020 · F023 and	F026 - 28)Y	N_	110 041107114 1511 1		
3. Is this waste INFECTIOUS? Y	NI8	II RADIOACTIVE? Y	N	Does it contain Po	CB's> 50ppm? Y	N
4. Il you answered yes to questions 2 or 3	,DO NOT CONTINUE. Please conta	ct your LAIDLAW Techr	nical Sales Representative for	assistance.		
Chemical Constituents (Must Total 100%)		Physical Characteristics	at 70°F			
+woh	a2-907					/
Tyvek	1.7-2.69	· ·		Semisolid		
Prastice (solvent based)	10 3070		Two .	Multila	iyers	
Paint (salvelet Pasca)		Free Liquids (%)	<u>~/</u>	Precipitated Solids (%)		-
		Viscosity: Low	Med	ium	High	
		Is Material Pumpable?	Yes No .	Polymeriz	able? Yes	No
		Specific Weight (lbs./g	al)	/OR Spec	ific Gravity(g/cc)	
	• • • • • • • • • • • • • • • • • • • •	Appearance FYVE	= 4111 p 1 451 150		Odor	
		Flash Point(cc): Exact		<60°F	61°F - 100°F	<u> </u>
		10	D1°F - 140°F	141°F - 200°F	>200	°F
		BTU/Ib 3 000	Ash(%)	- 510	Waler(%)/	
					lo	
(Diagon Attach All MCDCIn Compt	- A	Reactivity (Reactive w	ith):			
(Please Allach All MSDS's, Sample	9 Analysis and Additional Inio.)					
Metals (ppm)				Other:(Specify in PPM)		_
Total TCLP	7	7		Free Cyanide < /	Ph	enolics
0	Total TCLF			Total Cyanide </td <td><i></i></td> <td>CB's</td>	<i></i>	CB's
As	Cr(Total)	Be		Free Sullide		
Ag	Cr(Hex)	Ti Sb		T-1-1 Consider the second	, \	
	Hg			Total Organic Halogens (%	•	
Ba	Se	S		Fluorine		omine <u><!--</u--></u>
P0			Zn	Chlorino		
I certify that all information on this form is con suspected hazards of the waste to be disposed.	nplote and factual (including attached infor	nation) and is an accurate	representation of the known and	Information Completed By: Name: KYC CAYE	v	
				Tille: Revice in A		0/13/97
Generators Signature 585 £ '32 585004 (3-92)	was to		Dale	IIII DEMENTAL	dy r t Da	ie: Tratiativ
383 (- JZ 585004 (J-92)	/			· ·		

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 82178
BATON ROUGE, LOUISIANA 70884-2178

EPA Form 5700-22 k(Rev. 9/68) Previous edition is obsolete.

PLEASE PROT OR TYPE (Form designed for use on alite (12-pitch) typewriter.)

คือรุ่ 15 "รัย ใช้เรียงนักไม้นักผู้ได้เร. 299-2423pdf" ""

UNIFORM HAZARDOUS WASTE MANIFEST	[] [] [] [] []	US EPA 10 NO.	Manife Documen	est 2.P		ation in the of required	shaded area by Federa
3. Generator's Name and Mailing Address Revolute Address Street Ad	263620 03 4421 2 0	13. (3) A			late Manifest Doc		\ ~ ^
1.00 Pril 127 STON H. 72	estables so. Sa	37 8 2011	in 1		<u>.A A</u>		<u> 150 - </u>
t. Generator's Phone (\$15)					tate Generator's I	D	
Transporter 1 Company Name		6 (19.5)	PA ID Number		tale Transporters	10	<u> </u>
THE SOURCE COMPANY NAME OF STREET STREET	sau, iht.	្រុងស្រុក្ស		3 1 0 7	ansporter's Phon	1 1911 2	6 1364
7. Transporter 2 Company Name			PA ID Number		ate Transporter's		econ mother
					ansporter's Phon		
Designated Facility Name and Site Address	ess	10. US EF	PA ID Number	·G. S	ate Facility's ID		er a de la composition della c
MARKIE SHALE PROCESSOR	s.bec					: <u>-</u>	
HEGINAY OD EAST	no.ex	LADSEI	40 1 1 6	H. Fa	cility's Phone		
MCROMICEY, LOUBLAND X	C304				हरिका हरा	3181	-
1. US DOT Description (Including Proper			iber)	Containers lo. Type	13. Total Quantity	Unit WIVOI	Waste No.
*2270 CHALESTIERE FILLS	B.c. b HERESEL	H				- 7	Cau ir
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ENVIRONMENTAL QUALITY
COUS WASTE DIVISION
P.O. BOX 82178
ROUGE, LOUISIANA 70884-2178

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RINT OR TYPE (Form designed for use on a						No. 2050-0039, Expires 9	
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COPY 8: GENERATOR RETAINS

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ENVIRONMENTAL QUALITY	
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